

#### **LOCOPLUS**

5 pages of essential LocoScript advice

#### **LOCOFILE TUTORIAL**

Take the strain out of data file printing

#### **BUDGET HARD DISC**

20Mb for £199? We put the Cirtech Gem through its paces

# WIN

A hard disc - worth £200!



#### TEQNICHE KEYBOARD

Clean your keyboard in 10 easy steps

#### MINI OFFICE

How to navigate your spreadsheet

#### **BASIC TUTORIAL**

Brand new series begins!





# A to Z Computers Special Offers From 25th Oct 1991

## All prices include VAT + 1st class delivery + FREEPOST ORDERS

- Proscan Scanner Pack £166 95 Tegniche 102 keyboard £62.95 AMX Mouse & Micro
  - design 2 £84.95 Keymouse (Creat. Tech) £49.95
- 3.5 External Drive B:
- CF2 (Amsoft or Maxell) (per 10) £13.99
- PCW 9512 (M/S) Ribbon £2.60
- Dust Cover 3 piece set (New or Old Models)
- £19.95 Anti Static Screen Filter 2 pc Universal Printer Stand £6.95
- Locoscript 2 + Locofile (8) £37.95
- Printer support pack (Locomotive) £26.95
- Micro English or Maths (GCSE) £18.95
- World of Soccer game £15.95 Brian Clough Football Fortunes £10.50

# \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* All branded and 100% Certifie

£74.95

|   |            | LOI .  |                          |
|---|------------|--------|--------------------------|
| Amonth CEO Double Cided Charle Dales          | 10 off     | 30 off | 100 off                  |
| Amsoft CF2 - Double Sided Single Drive        |            | £40.50 | £129.00                  |
| Maxell CF2 - Double Sided Single Drive        |            | £40.50 | £129.00                  |
| Maxell CF2 - D/S (individually cased)         |            | £51.50 | £165.00                  |
|   |            | 1 off  | 3 off                    |
| Amstrad 3" Storage Box (10 Cap.)              |            | £4.95  | £12.00                   |
| Lockable Storage Box (20 Cap) (3.5" - 40 cap) |            | £7.95  | £21.60                   |
| Lockable Storage Box (40 Cap) (3.5" - 80 cap) |            | £9.95  | £27.60                   |
| 3" Disk Drive Head Cleaning Kit               |            | £4.95  | £13.50                   |
| 3.5" DSDD Sony, 3M, Maxell, TDK, Verbatim     | £8.50 (10) |        | 24.00(30)<br>£22.50 (50) |
|   | 4          |        | , , , ,                  |

£8.50

| Highest Quality Guaranteed  |                |                |       |              |
|---|----------------|----------------|-------|--------------|
| PCW 9512 Carbon Multistrike   | 1+             | 3+<br>£2.50    | 10+   | 30+<br>£2.30 |
| PCW 9512 Black Fabric   |                | £2.50          |       | £2.60        |
| PCW 9512 Colour Fabric<br>(Red, Blue, Green, Brown, Purple)                             | €5.45          | €4.95          | £4.50 | £4.50        |
| PCW 8256/8512 Carbon Multistrike<br>PCW 8256/8512 Black (fabric)                        | £3.20          | £3.10<br>£2.80 | £2.95 | £2.70        |
| PCW 8256/8512 Colour Fabric (Red, Blue, Green, Bown, Purple)                            | £5.45          | £4.95          | £4.50 | £4.50        |
| DMP 2000/3000/3160/3250 Black Fabric  | £3.50<br>£4.95 | £3.00<br>£4.50 |       |              |
| LQ 5000 Black Fabric<br>Star LC10, Pan KXP 1180/1090, Taxan Kaga, PW1080 A, Ep FX/MX/R. | £6.45          | £5.75          |       |              |
| Cen GLP, Bro M1009, Cit.120D/180E, Shinwa CP80  |                | £3,50 (1+      |       |              |
| P2200/P2+ KXP1123/1124 LC24-10 LQ1000/1050 KXP 1524 Swift 2                             | 24             | £4 95 (1+      | £4.50 | (3+)         |

# LOCOMOTIVE SPECIALS!

| NEW! Locofont Set (1+2) (8   | ile (8)   | £37.95            |
|--|---|-------------------|
| Locofile 8256/8512 £29.95<br>Locofile 9512 £29.95<br>Locomail 2 (8) £29.95<br>Locofont 2 (8) £16.95<br>3* Thesaurus (Deluxe) to use<br>with Locofile (8512/9512) £12.95<br>Printer Support Pack £26.95 | Locoscript II + Locospell Locofile + Locomail (8) Locoscript 2 (8) Locoscript PC Ver 1.5 Locolink V.2 Locoscript PC v1.5 + Locolink V.2 Locoscript PC v1.5 + Locolink V.2 | £102.95<br>£28.95 |

## **DUST COVERS**

8256/8512/9512 for monitor, keyboard & printer, anti-static, waterproof ocasion 1231 in history or cream colour, blue piping new 19512 dust cover set for monitor, keyboard & printer with sheet feeder.

NEWI 9512 dust cover for printer with sheetfeeder.

Crown dust cover, 8256/8512 (2 pcs) 1 pc for monitor with keyboard, and 1 pc for printer with section 10 pc for printer with section 10 pc for printer with section 10 pc for printer with 10 pc for printer pc for rown dust cover, accessors 2 pcs) 1 pc or nonline with keyboard, and mini-static, waterproof, see-thru).

PC1512/1640 (2pc). £8.95, PC 2086 (2pc). £9.95, PC22/32/3386 (2pc). tar LC10, NEC22/P2, Pan 1124...printer covers... £7.50 £10.95 £4.95

#### ALL GAMES WORK WITH 8256/8512 PCW 9512 COMPATIBLE

| * Brian Clough Football Fortune     | £10.50 |
|-------------------------------------|--------|
| * Bridge Player 2000 with Tutor     |        |
| * Bridge Player 2150 Galactica      |        |
| * Buran                             |        |
| * Catch 23                          |        |
| * Classic Games 4 (Special Edition) |        |
| * Clock Chess '89                   |        |
| * Colossus Bridge 4                 |        |
| * Colossus Chess 4.                 |        |
| * Corruption                        |        |
| * Crossgrid                         |        |
| (crossword without clues)           | €10.95 |
| * Cyrus Chess II                    | £13.25 |
| * Fish                              |        |
| G.Gooch's Test Cricket              | £15.80 |
| * Gnome Rangers                     | £12.25 |
| * Grand Slam                        |        |
| * Guild of Thieves                  |        |
| * Head Coach v3                     | 615.95 |
| Hop, Munch, Shoot Collection        |        |
| * Ingrid's Back                     |        |
|                                     |        |

**EDUCATIONAL** 

panish Tutor ... alian Tutor .... rench Mistress erman Master

Business French

## **NEW LOW PRICES**

| * Jinxter          | £18.25                |  |
|--------------------|-----------------------|--|
| Lancelot           | £15.80                |  |
| Mindfighter        | £13.95                |  |
| * Pawn             | £18.25                |  |
| * Pete Gerrards H  | andy Diary Plus£16.95 |  |
| * Scapenhost       | £15.80                |  |
| * School's Out (5) | games)£10.95          |  |
| * Scrabble         | £14.95                |  |
| * Sir Percival     | £13.95                |  |
| Ski Climb Caver    | Collection £10.95     |  |
|                    | £15.25                |  |
| * Steve Davis Sno  | oker £13.25           |  |
| * Tank Attack      | £16.25                |  |
|                    | £13.95                |  |
|                    | £15.50                |  |
| * The Complete H   |                       |  |
|                    | entre£14.25           |  |
| * Time & Magik     | £10.95                |  |
|                    | £14.95                |  |
|                    | £17.95                |  |
|                    | £15.95                |  |
|                    |                       |  |

## **APPLICATIONS**

| Mini Office Professional(Re-release package)  |
|---|
| WORDPROCESSING           New Word 2         £49.9           Protext (full version)         £42.9           Tasword 8000         £24.9           TasSpell 8000         £17.5 |
| DATABASE         £37.9           Dbase 2         £37.9           Sage Retrieve         £51.9           Masterfile 8000         £36.9  |
| SPREADSHEET   |

#### NEW! Supercalc 2 (Comp. Asso.) £39.95

| Clacker 2 turbo Flus    |         |
|-------------------------|---------|
| ACCOUNTS                |         |
| Money Manager           | £47.95  |
| Sage Popular Accounts   | £71.95  |
| Sage Pop. Accounts Plus | £101.95 |
| Sage Pop. Invoicing     | £53.95  |
| Sage Pop. Payroll       |         |
|                         |         |

| COMMUNICATION                   |        |
|---------------------------------|--------|
| Sage Chit Chat                  | £81.9  |
| Sage Chit Chat + Modem          | £222.9 |
| TUTOR                           |        |
| Touch 'n' Go                    | £16.9  |
| Two finger conversion (lansyst) | £16 9  |

| 8000+ Collection w/disk  |        |
|--|--------|
| UTILITY  |        |
| Datafax/Jeeves Desktop (Kempston)<br>CSTAM file transfer (3", 3.5", 5.25") | £24.95 |
| w. cable   | £29.95 |
| Desktop Program  | £19.95 |
| Easy Labeller  | £34.95 |
| Personal Excellence (lansyst)  | £16.95 |
| Flipper 3 NEW!   |        |
| Foreword   | £42.95 |
| AMY Mouse + Deskton  | C50 05 |

| DESKTOP PUBLISH       | ING                      |
|-----------------------|--------------------------|
| Desktop Publisher (Re | e-release package)£19.95 |
| Micro Design 2 (DTP)  | £44.95                   |

| MD2 (Font library) 2 disk set of extra fonts £25.9             |     |
|--|-----|
| Stop Press (DTP) £36.9   | 5   |
| Stop Press (DTP)£36.9<br>AMX mouse + Desktop Publisher£61.5    | 0   |
| AMX mouse + Micro Design 2                                     |     |
| (DTP package)  | 5   |
| AMX mouse + Stop Press £71.9                                   | 5   |
| GRAPHICS   |     |
| Masterscan + Paint Pack£59.9                                   | 5   |
| Masterscan £44.9   | 5   |
| Masterscan £44.9 Proscan PCW hand held scanner,                | Tie |
| software + interface (C.T.)£166.9                              | 5   |
| Keymouse (Creat. Tech) £49.9<br>PERIPHERALS/ADD-ONS            | 5   |
| PERIPHERALS/ADD-ONS  |     |
| 3.5" external B: drive (8256/9512)£74.9                        | 5   |
| AMX mouse + interface£42.9 Original Amstrad par/ser. interface | 5   |
| Original Amstrad par/ser. interface                            |     |
| (cps 8/9)£29.9   | 5   |
| (cps 8/9)£29.9<br>SCA par/ser. Interface Plus w/clock          |     |
| + calendar £57.9   | 5   |
| SCA 512K RAMPac upgrade£99.9                                   | 5   |
| SCA 768K RAMPac upgrade£125.9                                  | 5   |
| SCA30Mb Vortex Hard Disk w/interface£399.0                     |     |
| SCA 60Mb Vortex Hard Disk w/interface£589.0                    |     |
| Tegniche 102 repl. keyboard (PCW)£62.9                         | 5   |
| PCW joystick interface£17.5                                    | 0   |
| Quickshot turbo joystick£7.9                                   | 5   |
| MISCELLANEOUS  |     |
| 9512 Daisywheels£5.9   | 5   |
| Printer cable (D25 - Cen. 36)£7.9                              | 5   |
| Printer cable (Cen 36 - Cen 36)£9.9                            | 5   |
| 2 way Cen. 36 switch box£17.9                                  | 5   |
| 2 way serial D25 switch box£17.9                               | 5   |
| 4 way Cen. 36 switch box£25.9                                  | 5   |
| 4 way serial D25 switch box£25.9                               | 5   |
| Printer extension lead (8256/8512) 2pcs.£14.9                  | 5   |
| Printer extension lead (9512)£14.9                             | 5   |
|  |     |

| Offiniate Cole                        |                                |        |
|---------------------------------------|--------------------------------|--------|
|                                       |                                |        |
| DAAMA                                 | Locoscript Locomail, Locospell | £8.50  |
| BOOKS                                 | Looking into Locoscript 2 Amst | £16.95 |
| DOOILO                                | Mallard BASIC PCW Intro & Ref  | £9.95  |
| 15 Hour Word Proc Amstrad PCW£6.95    | Mastering Amst PCW 8256 8512   | £9.95  |
| All in One Mini Office Profes £11.95  | Ops Guide Amstrad CPC PCW 2 Ed |        |
| Amst 8256 8512 More Wdprocessor £9.95 | PCW Machine Code               |        |
| Desktop Publishing Amstrad PCW£9.95   | PCW Supercode                  |        |
| Locomail User Guide£19.95             | Using Amstrad Word Processor   |        |
| Locoscript 2 & Amst PCW Comp£11.95    | Using The Amstrad PCW 9512     | £10.95 |
| Locoscript 2 & Mail Spell File£10.95  | 8000+ Collection               |        |
| Locoscript 2 User guide£19.95         | Exploiting AMS PCW 9512        | £14.95 |

Fun School 3, Under 5 Fun School 3, 5-7..... Fun School 3, Over 7...

Magic Maths (4-8) Maths Mania (8-12

Better Spelling (9-14) Micro English (GCSE) Micro Maths (GCSE)

#### Telesales: 081 744 1834/2354 Faxline: 081 - 744 1768 (Mon-Sat 9.30-6.00)

Postal Orders: A to Z Computers, FREEPOST, TK1298, Twickenham, TW1 1BR Showroom: 132 Heath Road, Twickenham, TW1 4BN (10-5 Mon-Sat).



★ Prices subject to change without notice and for UK & BFPO orders only.

£83.95 £26.50

£14.95 ...£6.95

All hardware products carry 12 months manufacturer's warranty.

9512 autosheet feeder
MM3i Margin Maker (8) ...
Maxifit (Margin Maker 9512) ...
Stampton self adhesive labels (1 7/16; x 3 1/2) per 1000)
Mouse mat (standard Contriver) ...
Mouse mat (standard Contriver)

A4 Clamp on desk mount copier 2 pieces universal printer stand.

OFFICIAL ORDERS FROM EDUCATION & GOVT. AUTHORITY ARE WELCOME (£50 MINIMUM).

Stockmarket 2

# OPENING MENU

FUTURE PUBLISHING, BEAUFORD COURT, 30 MONMOUTH STREET, BATH BA1 2BW TEL 0225 442244 FAX 0225 446019

EDITOR Sophie Lankenau

ART EDITOR Harriet Althay

SENIOR STAFF WRITER Martin Le Poidevin

SENIOR SALES EXECUTIVE Patty McKellar

GROUP AD MANAGER Alisdair Chisholm

AD PRODUCTION Frances Peters

AD SERVICES CO-ORDINATOR Annie Gronow PRODUCTION TECHNICIANS Simon Windsor.

Jerome Clough, Chris Stocker
CIRCULATION DIRECTOR Sue Hartley
PUBLISHER Simon Stansfield

PUBLISHING DIRECTOR Ian Seager

ART CONTRIBUTORS

COVER PHOTOGRAPHY Jonathan Fisher Photography 0225 332626

COLUMN ILLUSTRATION Jolyon Webb 0225 317942

ARTWORK Sally Meddings, Paul Tudor COLOUR ORIGINATION RCS Repro.

The Maltings, Teign Road Newton Abbott. Devon 0626 334545

PRINTED AND BOUND BY Chase Webb. St Ives Company, St. Austell, Cornwall DISTRIBUTION (UK and EIRE) Future Publishing Ltd 0225 442244 (OVERSEAS) COMAG Ltd 0895 444055

FUTURE PUBLISHING, THE OLD BARN, SOMERTON, SOMERSET TA11 7PY TEL 0458 74011

MAIL ORDER QUERIES Justin Wharton
SUBSCRIPTION ENQUIRIES Christine Stacey

#### © FUTURE PUBLISHING LTD 1991

8000 Plus is an independent publication. Future Publishing Ltd have no link with Amstrad pic. We welcome contributions from readers – but canno undertake to reply to all correspondence, even if an SAE is included.

SAE is included.

Payment for accepted freetance articles is made 4 weeks after publication date.

We take great care to ensure that what we print is accurate, but we cannot accept liability for any mistakes or misprints. No part of this publication may be reproduced in any form without our permission.

ABC—January—June 91—27, 186

#### YOUR GUARANTEE OF VALUE

This magazine comes from Future Publishing, a company founded just six years ago, but which now sells more computer magazines than any publisher in Britain, We offer:

**Better advice**, Our titles are packed with tips, suggestions and explanatory features, written by the best in the business.

Stronger reviews. We have a cast-iron policy of editorial independence, and our reviews give clear buying recommendations.

Clearer design. You need solid information fast. Our designers highlight key elements by using charts summary boxes and annotated photographs.

Greater relevance. At Future, editors operate under two golden rules: understand your readers' needs and

More reader interaction. We draw strongly on readers contributions, resulting in the liveloilest letters pages and the best reader tips. Buying one of our magazines is like joining a national user group.

Better value for money. More pages, better quality magazines you can trust



Home of Britain's finest computer magazines 8000 Plus Amatrud Action PC Plus Amaja Fernat ST Format New Computer Express Your Sinclait Commodern Format Siga Power Amaia Power Amaia Shopper PC Arcovers.



10 THE PcW9256



**42 CLEANING TEQNICHE** 



82 WIN A HARD DISC!

#### **FEATURES**

#### 10 PcW9256

As the PcW9256 goes on sale, we take an in depth look at the machine. How does it differ from existing models? What about software availability? Turn to page 10 for a complete guide to using your new PcW!

#### 14 BASIC FOR BEGINNERS

We begin a brand new tutorial series on BASIC, the programming language supplied with your PCW. Don't miss out on your chance to learn a new skill

#### **33 TWEAK TUTORIAL**

Discover the power of Creative Technology's graphics utilities disc with our step by step guide

#### 38 MINI OFFICE SPECIAL

Tony Hart shows you how to navigate your way around the Mini Office spreadsheet

#### **42 CLEANING TEQNICHE**

Improve the performance of the Tequiche PCW102 – with our ten step guide to keyboard cleaning!

#### LOCOPLUS

#### 17 LOCOSCRIPT SURGERY

All your LocoScript problems solved in our four page collection of hints, tips and advice

#### **22 LOCOFILE TUTORIAL**

Karen Donaghay brings you the latest on LocoFile

#### 24 OVER TO YOU!

Readers share their LocoScript wisdom with you

#### **REVIEWS**

#### **29 TRAINING TIME**

We take a look at the latest in 'teach yourself' courses for the PCW

#### **50 CIRTECH GEM**

Cirtech's brand new budget hard disc comes under the scrutiny of the 8000 Plus review team

#### REGULARS

#### **5 NEWS PLUS**

So just what is happening in the world of the PCW? Find out – here!

#### **45 LANGFORD**

#### 47 SUBSCRIPTIONS

Don't miss your chance to secure a year's supply of your favourite magazine

#### **48 BEGINNERS' GUIDE**

We examine some popular PCW word processors

#### **54 LISTINGS**

BASIC programs galore!

#### 59 CLUB & TRAINING GUIDE

PCW help could be closer than you thought. Turn to our round up of the UK's clubs and training centres

#### **61 GOOD SOFTWARE GUIDE**

Word processors, accounts, utilities and DTP

#### **65 TIPOFFS**

Five trouble-shooting pages crammed with PCW tips

#### **74 REPAIRS GUIDE**

Where to go to get your PCW fixed!

#### 75 SPECIAL OFFERS

PCW shopping in the comfort of your own home

#### 77 POSTSCRIPT

Your chance to tell us your views

#### **82 COMPETITION**

Win a hard disc - worth £200!

# Move up to PC word processing without starting all over again.

Howard Coulections of the control of

The thought of upgrading from your Amstrad PCW to a fully fledged PC probably fills you with dread.

Learning new software. Re-entering all your files. You have to wonder whether it's really worth doing.

Well, with LocoScript PC and LocoLink you can do away with all that.

Because LocoScript PC works in just the same way as LocoScript on your PCW, but is much faster and has all the features you'd expect of PC software.

Like split screen editing, mixing fonts in a document and phonetic spelling correction. It also has LocoSpell, LocoMail and LocoFile already built-in and support for almost every printer available. Whether a simple matrix or a more sophisticated laser printer.

Yet, unlike other PC software, you'll find it very easy to use.

And with the addition of LocoLink, your PCW's documents can be automatically transferred to your new PC in just a few minutes while keeping all your existing layouts and styling intact.

To find out more, simply fill in the coupon or phone Katy Buchan on 0306 740606 for details of your nearest authorised dealer.

You'll discover that moving up to a PC with software that's already familiar, can be simple and painless.

LocoScript III

| Please send me m | ore information on LocoScript PC                                      |
|------------------|---|
| Name             | WE CALL THE STREET  |
| Address          |   |
| Postcode         | Tel:  |
| S                | OCOMOTIVE<br>OFTWARE<br>orking Business Park, Dorking, Surrey RH4 1Y1 |
|                  | OU NEED. NOTHING YOU DON'T  |



Sophie Lankenau - Editor

Welcome to the November issue of 8000 Plus. We've been having a whale of a time this month tinkering around with the new PcWs, and the results of our investigations can be seen on page 10 of this issue. Many of you have written in with advance questions about the machines, so we've taken this opportunity to put paid to any worries you may have had about the new range. As you will no doubt be aware, the major differences are cosmetic; apart from the switch to 3.5 inch format, there is little to shock or amaze you. The machines are certainly very impressive, and we look forward to hearing about your

experiences with them. If you are the proud owner of a new machine, why not drop me a line and tell me just what you think? Your opinion could help others in their purchasing choice! In the new year, you will be noticing changes in 8000 Plus - changes which are being made in order to ensure that the magazine caters for users of all five PcWs in the range, so your input - as always - is valued.

Cirtech have shared the limelight enjoyed by the new PcWs with the release of their Gem hard disc. And what a gem it is! Cirtech have surely come up with yet another winner in their new product, and even better news is that the disc will not break the bank. Gem is a must for anyone's Christmas list - and you even have the chance to win one in this issue of 8000 Plus!

Don't miss our brand new BASIC tutorial on page 14 - it certainly takes the fear out of the prospect of programming, and will have you hooked in no time! If you are following the series, please don't hesitate to write in with your BASIC queries. We'll do our best to answer them as the months continue.

We've a packed issue this month so make yourself comfortable and settle down for a jolly good read!

# ON-SITE SERVICE FOR NEW PCWS

Dictaphone announce maintenance contract prices for new 3.5 inch disc drive machines.

Dictaphone has been quick to announce an on-site maintenance service to owners of the newly announced range of PcWs.

The company's third party maintenance division is offering one, two and three year maintenance contracts for the new PcW9256 and PcW9512+.

Prices start at just over £57 (inc VAT) for a year's upgrade on Amstrad's warranty on a 9256. This will give new users on-site maintenance for the first year they own their new machine.

For a 9512+ with a daisy-wheel printer this would cost nearly £63.50 and just over £75 for a 9512+ with a Canon bubble jet printer.

Once the warranty has run out, the prices increase. For the top of the range 9512 Plus with a bubble jet the normal price is nearly £100 including VAT.

A three year contract, covering the warranty upgrade for the first year, and two years at the normal contract price, will work out cheaper per year. For example, a three year contract on a 9512+ with bubble jet printer will cost just over £250 (inc. VAT) - a mere £84 per year.

These prices will cover all on-site visits. Dictaphone aims to respond to any call-out within two working days.

Dictaphone have a long term interest in the PCW market. Keith Halliday, marketing manager for the third party maintenance division stated "The Amstrad PCW is an important product line for us. We have been working with the range since it was first launched and we are delighted to be providing service back-up for the new models." The company are at present supporting 20,000 old style PcWs.

Dictaphone's enthusiasm to get organised for the latest range perhaps reflects the feeling that, with the new machines, Amstrad at last have a PcW that can break into the business market.

Using the new PcW 3.5 inch disc drive, compatibility with a PC or Apple Macintosh is now relatively easy. So Dictaphone (and Amstrad for that matter) must be hoping to see PcWs being used as low cost word-processing units in the office.

Dictaphone's maintenance division can be found at Regent Square House, The Parade, Leamington Spa, Warwickshire CV32 4NL, telephone (0926) 429124.

#### Amstrad profits halved

After those heady years as the darling of the stock market, Amstrad has come up against the harsh reality of recession with pre-tax profits for 19990/91 more than halved.

After half year results, described by Amstrad chairman Alan Sugar, in his annual report, as "quite good, considering the economic climate", the second half results showed real signs of the recession biting.

Sales figures for the year dropped nearly £50 million to £528.4 million. And well publicised problems with their 2386 range of IBM compatible PCs resulted in the value of stocks being written down more than £20 million.

This resulted in pre-tax profits falling to £20.4 million compared to £43.7 million in the previous year. Shareholders did not lose out, however, with the final dividend being kept the same as last year.

However Mr Sugar warned of problems in the future. In the chairman's report, he predicted "a difficult current financial year from a profits point of view, unless there is a sudden positive change in the market."

#### Mac to read PcW discs

Not two months after the PcW9000 series machines are launched, and the software to allow the discs to be read by other types of computers is starting to appear.

Already, London-based Software Diffusion have announced a program for the Apple Macintosh which will read the new 3.5 inch PcW discs.

User groups on the PCW discs will appear as folders on the Mac. Files can be transferred to and saved on the Mac hard disc without effort.

Final touches are being put the translation program which will allow LocoScript or ASCII text files to be loaded directly into MacWrite – the popular Mac word processor.

At the moment, we can only report that the new program is likely be called PCWReaDA and will cost around £29. Anyone interested should phone Software Diffusion on (081) 903 3044.

### "My text comes from the PCW...."

The Bible Society has just launched Bibliotec Wordkey – the first computerised index of the whole Bible for the PCW.

The program (only suitable for the 8512 or 9512) allows you to find all the occurrences of a word or combinations of words in the Bible.

It carries out in seconds work that could take a considerable amount of time using the old book-based concordance.

The program is based on the Good News translation of the Bible. Each reference to the chosen word or words is given as a reference in that translation.

The program offers a list of nearly 5,000 key words to choose from. If you can't think of the word that you want you can use wild cards or there is even the

opportunity to plod through a list of all the key words if you are really that keen.

Calling up any key word will give you a list of one of more of the 200,000 Bible references – all stored on one 720k disc. Searches can be carried out on the whole Bible or on selected sections.

You can group all forms of a word (for instance 'sing', 'sang' and 'sung' can all be called up at the same time) and it can even distinguish between different meanings of words. For example 'cross the lake' would not appear in the same list as "the cross of Jesus'. All this for only £49.95

The program has already been launched on the PC but the PCW version is surely recognition of the amazing popularity of the computer amongst the clergy and active church members.

# DVANTAG

#### LOW COST PCW SOFTWARE

**FAST. RELIABLE MAIL ORDER: 0242 224340** BY FAX . BY POST . CALLERS WELCOME

## DISKS 25 EACH DISKS 5 OR MORE £4 EACH | 3 OR MORE £15 EACH VAT INCLUDED

DESIGN £17.95 DISKS £17.95

State disk size when ordering VISA Access

UK & EC countries please add £1.95 P&P per order. Non EC countries please add £5.95 per order.

#### BUDGET DISKS

The following titles contain a selection of PD Shareware and our own copyright software. Each is menu-driven with ondisk instructions.

#### **GAMES & EDUCATION**

Plenty of entertainment with this best selling set of classics - Pacman, Space Invaders, Golf, Bomber, Maze Game, Hungry Snake, Pressup, Ping-Pong, Return To Arg, Game Of Life, Bugs.

A well-presented and challenging version of the popular board game, played against computer. Features large, clearly presented board.

#### PIT YOUR WITS

Pit your wils against the computer with these populer garnes - Chess, Othello, Mastermind, Spellit, Rubils Cube, Stone (Awari), Biorhythm Plotter, TicTacToe and Word Search Puzzle Maker.

VENDIAGE
Similar to TV Quiz "Countdown". Make longest word you can from your chosen letters "VERB - CONSONANT" - the computer will do the same. The longest word wins! "Amazing graphics" - PCW.

#### TRIVIA QUIT

graphics and sound, competitive scoring and a wide variety of questions. Fun for all ages. "Guaranteed completely trivial" - 8000 Plus.

Computer version of popular mechanical sliding squares puzzles. Pictures are divided up on a grid of squares, then mixed up; your task is to slide them around to re-assemble the pictures.

#### JUNIOR CHALLENGE

An entertaining selection: Aerial A Battleships, Burglar Bill, Car Park Blues, Fly Biblical Hangman, Mastermind, Post Solitaire, Table Tester, Widget Factory.

#### AMUSEMENTS AND DIVERSIONS

Startrek, Lunar Lander, Merchant, Trade, Boggle Baseball, 30 Noughts & Crosses, Chase, Quest, Horse Racing, Cival War, Baccarat, Craps, Hunt The Wimpus, Swarms, Blackjack, Square, Crazy-8, Hangman, American Football, Queen, Spies, Nim, Homonyms, Dots, Dragrace, Pilot, Strobe.

#### COLOSSAL CAVE ADVENTURE

Featuring the famous game which originated on main frame computers, with save and re-load. Plus BESTIARY, "A well-produced, novel adventure" - Bill Brock Adventurer's Guide.

#### PCW CHALLENGE

Four cult classics from Nemesis- The Trial of Amold Blackwood, Arnold Goes To Somewhere Else, The Wise And Fool of Arnold Blackwood, Brawn Free. "A good challenge lots of hints and tips and good range of responses" - 8000 Plus.

#### LOGO LOGIC

Educational programs for DR-LOGO (supplied with your PCW). Plan your shortest route with AIR-LINER. Play ANAGRAMS and HANGMAN, DRAW with the LOGO tuttle, write and print tunes with MUSIC printer and use the DISK LABEL PRINTER.

#### FUN WITH GRAPHICS

PCW-DRAW Simple program to create, save, edit, print pictures. BIO-MORPH Start with a simple fig-ure after a few generations you have a set of com-plex and unique creatures Plus GRAPHIC ROU-TINES including 45 character PCW screen.

#### SPECIAL INTEREST

#### EXPERT SYSTEM

£5 Use your computer for decision making, and prob-lem analysis. Build up a knowledge base on any subject then, by answering a series of questions, reach a logical conclusion.

#### COMMUNICATIONS TOOLBOX

Data transfer between computers (local/remote). Access to Viewdata, Prestel, Databases and Bulletin Boards. With Kermit, UKModem7, MEX and

#### HI-HO FILE TRANSFER

Very straightforward menu-driven program for fast file transfer in and out of your PCW (needs serial interface and null modern cable)

#### **WORD PROCESSING & DTP**

#### WORD PROCESSOR

A powerful WordStar-like editor which offers ful screen editing, full block operations, windowing, automatic horizontal scroll (line length up to 255 characters), macro functions, word-wrap, format ting, pagination, find/replace, undelete and more

#### WP & PRINTER TOOLBOX

WP & PRINTER TOOLBOX

Print text (eg Spreadsheet) sideways on your
printer, SORT a file into alphabetical order, WORD
COUNTER for Locoscript or ASCII, WSCLEAN,
CALENDAR GENERATOR, SPELING CHECKER,
SCORING CARD, BANNER Printers, TYPEWRITER
emulator, SETPAPER, SETPRINT paper and printer.

PRINTMASTER (dot matrix)
Use your PCW and printer to good effect by designing and printing your own customised Letterheads, Stationery, Calendars and Greeting Cards. Also prints signs and banners.

#### PRINTMASTER TOOLBOX (2 disk set) £10 eatures a wide range of over 600 graphics for use with Printmaster plus GALLERY program to view graphics on-screen before printing.

LETAFONT ( dot matrix)

Change the letters and revitalise your PCW screen with this set of 16 new fonts. Works with most CP/M-based programs. Edit your own set of fonts and even print them out.

#### **DATABASES & SPREADSHEETS**

#### KEYBASE II

JK Shareware database. File Manager, Repor OR Snareware database. "He Manager, Report Generator, Editor/Browser Screen, Up to 35000 records, Rapid Search, Export to SuperCalc, LocoScript or Protext, MailMerge, Calculator. "Keybase is well designed simple to use and it works. A good value database." - 8000 Plus.

#### FILE INDEX

£.5

Keep mailing list, addressbook, club membership file or catalogue your records, CD's, stamps or books. Use like a Card Index or Filofax. Comes with sort and printer routines. Easy to use.

#### DATABASE MANAGER

DATABASE MANAGER
A small relational database for storing simple data and producing reports from the data. Uses free format query language with macros and commands plus on-line help. A good introduction to the concept of databases. Disk also contains a useful Inventory Database.

he next step from your pocket calculator. Home accounts, mortgage repayments, business and multiple calculation exercises, 60 rows by 26 columns. Menu-driven - enter text, numeric value calculation (+ - x / with reference to any cell or total). Print facility.

NUMBER CRUNCHER
Does for calculations what a WP does for text.
Reviewe mathematical expressions (formulae), calculate their results, modify them and store them on disk. Create files of formulae. Menu prompts and on-line help. Up to 15 sig figs., over 100 characters, arithmetic, trig, log and % expressions.

#### **HOME & BUSINESS**

#### DESKMASTER

Comprises a desk-top appointments calendar, calculator, memo-writer, card-file database. Plus label Printer, Home Accounts, Mortgage Calculator, Weather Forecaster.

#### HOME ACCOUNTS

An excellent home finance program written by a UK author with all the facilities you need to track your bank account and plan your budget.

Keep track of your video collection. Offers four Sort options and Forms Management System to print in order of title number, Video number, global alphabetic or unique

#### HOME INVENTORY/HOME INSURANCE £5

Record valuables for house contents insurance. Work out how much money you're spending, the value of your stamp collection, the value of your assets. Can be used for simple stock-taking.

#### NEW :

#### CORNIX SIMPLE ACCOUNTS

Popular commercial program now available as a fully operational shareware version. Full book keeping system without the need to learn complicated accounting.

#### **PROGRAMMING**

#### **NEVADA PASCAL COMPILER**

£.5

Offers floating point to 14 digits, trace facility, run-time error messages, linker and assembler, 26 built-in functions, 9 built-in procedures, 15 I/O functions, random, sequential and indexed file I/O functions, histogram activity analyser and access to system caller. MANUAL EXTRA

#### **NEVADA FORTRAN COMPILER**

Adheres closely to the ANSI x 3.9 - 1966 standard with some 1977 extensions. Advance features include THEN, ELSE, COPY, CHAINING and TRACE. With two-pass assembler, random I/O file, 25 general purpose subroutine/function library and runtime error reports. NO MANUAL

#### THE Z80 PROGRAMMER

280 Assembler creates executable COM programs from your Assembler files. Z80 Disassembler, Debugger, Library, 8080 Disassembler, Z80 to 8080 Translator, utilities.

#### DAZZLESTAR

The powerful Z80 Disassembler with full set of associated utilities.

#### THE C PROGRAMMER

Not sure which language to go for? Try the Small C Compiler, a practical and useable introduction to C. Disk includes source code. Produces executable .COM programs.

Examples of C at work. C source (for a variety compilers) with COM programs. As a bonus the programs are quite useful too.

#### PROLOG-80

£5

Fascinating introduction to AJ. I/O control, database manipulation, global variables, arrays, blocks, unification etc. With editor.

#### THE LISP PROGRAMMER

Find out more about this fascinating Artificial Intelligence interpreter Fully documented. JRT PASCAL (2 disk set)

A professional-quality Pascal Compiler which comes with extensive documentation and plenty of source code examples.

#### GOING FORTH

A comprehensive FORTH compiler which pro-duces executable programs. With extensive docu-mentation, library files, utilities.

#### **SAVE MONEY**

JOIN OUR PCW CLUB AND GET:-

- BUDGET DISKS @ £4 EACH - 5 OR MORE £3 EACH
- DESIGN DISKS @ £16 EACH
- 3 OR MORE £14 EACH USE OF OUR TECHNICAL SUPPORT
- SERVICES
- SOFTWARE & HARDWARE AT DISCOUNT PRICES

Membership is £10 per year plus £1.95 P&P

#### UTILITIES

#### INSTA-MENU

£5

ot-style menu presentation for CP/M pro grams. Easy access to user areas, simple cursor controlled program selection for running, typing, erasing and copying programs. A good 'front end'

FILE CONTROL features Copy, Delete, Rename, Print, Change User Number, Change Attributes, Log, Sort, Go To and Word Processor-style text file editing. DISK CONTROL features Disk Map, Disk Parameters, Sector Editor, File Editor and Unerase.

#### COMPLEAT LITTLETES

Our classic collection featuring NSWP Newsweep one key erase, copy, rename and print plus many other features, SUPERZAP Disk sector editor - edit by track/sector or by filename, DISKITA disk formatter, 178K data format and 5.95° second drive, control in AMERICA she and 5.95° second drive, SCREEN BLANKER plus 12 more.

#### DISK ORGANISATION

CATALOGUE your disks and produce a printed index, archive files and save disk space, MENU SYSTEM, FILE DATING SYSTEM, DISK UTILITY SQUEEZE / UNSQUEEZE save up to 40% disk

#### **DESIGN DISKS**

The following titles feature top quality commercial programs by a UK author who provides technical support to customers. Instructions are supplied on disk.

#### FORM BOX COMPENDIUM

Filled with LocoScript compatible forms. Invoice, Receipt. Order, Delivery, Petty Cash, Persona Organiser, Money, Household and more

£17.95

#### MONEY MASTER

£17.95 MONEY MASIER

Easy to use small business and personal accounting. Received from / paid to, item description,
usage and account codes, amount, date and running balances. Totalling and budget analyser by
payer, usage code or other. Search, select and report functions.

#### PRINTER CALCULATOR

Prints calculations on the PCW printer with totaling and item names. Special functions for till and sales receipts.

#### MEGACALC SPREADSHEET Large capacity, 14 digit accuracy, full screen edit

ing. 80 functions including scientific, maths, trig conditional, complex expressions.

#### TEXT EDITOR

A CP/M compatible mini Word processor. Ide for Source Code editing and quick text editing.

#### alculates maths expressions in document and

other files, replacing them by the results. TEXTBASE

#### Turns existing files into database without the need for any re-typing.

HYPERTEXT PCW Consider it as a 3-dimensional text processo where pages are linked by ideas and topics to make an interactive network. Suitable for creating reference systems, training aids etc.

#### EXPERT SYSTEM PCW

Interactively derives conclusions from knowledge in the form of rules and facts using fuzzy logic optionally explaining its deductions English.

#### SECURITY FILE ENCRIPTION

Much more than just password protection - haker proof coding and decoding of all files and pro-grams using key phrases.

#### SUPASTAT STATISTICS

All standard statistics functions plus Correlation, Chi-Squared, ANOVA, Mann-Whitney, Wilcoxon, Krusal-Wallis, Kendall, Page & Friedman, Jonkheere, F&T Test, Cross Tabulation, Scatterplots

#### and data editing. CPM+ SCANNER

Displays machine code contents of the compute memory in approximately 140 screen pages Essential for peek and poke users.

#### LITHLITIES COMPENDIUM

Packed with home and office programs including File Sorter, Word Counter, Mail List Labeller, Universal Calendar, Columns Formatter, Printer Control, Timer, Screen Commands etc.

#### **COMPILERS**

#### MIX C COMPILER Professional C

£33.95 compiler produces stand-alone

£17.95

£17.95

executable. COM files from source code. Closely adheres to Kernighan-Ritchie standard with full floating point arithmetic. Very good tutorial with examples - recommended for newcomers.

MIX C EDITOR WordStar compatible £19.95
MIX C TUTORIAL EXAMPLES on disk £5.95
MIX C GRAPHICS LIBRARY & ASM UTILITIES £9.95

## THE MIX C 'WORKS' - All the above

NEVADA COBOL COMPILER £33.95
Based on the ANSI - 1974 Standard for this industry - standard data processing language. Features runtime error messages, random access and sequential files and integration of assembly language using the DR MAC assembler.

TEN MAXELL/PANASONIC 3" DISKS TEN SOLID PLASTIC DISK CASES INTERFACES Serial & Parallel ports

PRINTER CABLE Centronix to 25-way D £12.95 NULL-MODEM CABLE for file transfer £12.95

#### Shareware trial for Simple Accounts II

Cornix Software, authors of the Simple Accounts II package, have launched a daring new experiment in marketing by offering a shareware version of their program through Advantage, the public domain and shareware specialists.

Shareware, popular with other makes of computers, has never really taken off with the PCW. It is basically a 'bite it and see' philosophy applied to computer software.

With Cornix, for instance, they are offering a full, working version of the program, for a nominal fee, with a couple of restrictions. For instance you can only input 50 entries, you cannot go beyond two accounting periods and you cannot use all the end of year accounting features.

It even has all the documentation on disc with a utility to allow you to browse through the instructions.

Even with these restrictions there is certainly enough in the program to allow new users to evaluate the program fully and decide if it suits their needs.

If they like the package they can then buy an unrestricted version of the program for around £93 including VAT. This also allows them access to full technical support, including an out-of-office-hours telephone hot-line.

Cornix's Merrick Allsopp said "Often people will buy a program and discover too late that it doesn't do what they want it to do. In software there are horses for courses and if our program doesn't suit a particular user we would prefer they found out before they spent the money.

"But we also feel that, with Simple Accounts II, we have nothing to hide. This would seem to be the ideal way to present our product to potential customers."

Simple Accounts II has a long history in the PCW software market. Its predecessor was one of the first accounts programs available (the program was

HOME

IS WHERE

OFFICE IS

otres Bibli

originally written for the Amstrad CPC). It was revamped and improved in 1988 to the present version.

Aimed very much at the small business Simple Accounts II aims to simplify the accounting process as much as possible, keeping clear of accountants' jargon.

But hidden behind this simplified front end, you can gain access to a full set of accounts, produced in a form to make your accountant's life easy.

This move may mark an important step forward in opening up the shareware market to PCW software.

Jeff Green of Advantage said, "There are very few shareware programs available to PCW owners. We always feel there must be many programmers out there with good programs that could be successfully marketed through shareware."

For details contact Advantage, 56 Bath Road, Cheltenham GL53 7HJ, telephone (0242) 224340.

## A label for all seasons

With the old three inch discs becoming more and more scarce, the need to make use of old discs becomes even more important. So Gnome Designs are providing the ultimate accessory for this - the erasable label. To tell you the truth, the label is not actually erasable. In fact it is the writing on the label that is erasable - a far more sensible arrangement. A pack, containing 100 labels, comes complete with two pens (red and black) and a bottle of erasing fluid. Then when you change the contents of the disc, you can erase the writing and start again "to end to scruffy. altered, unreadable labels" as Gnome Designs insist on saying. Writing, it is claimed, cannot be erased by a finger, rubber or even fading with time. Several pack types are available, in black/white or colour coded. There are labels for 3 inch and 3.5 inch discs. Prices start at £9.95. For details contact Gnome Designs, Pebble Dene. Syke Lane, Leeds LS14 3BH, telephone (0937) 58171.

#### **Election fever**

Election fever has even hit the relatively virus- free PCW. Now you don't need to wait for Election Special. You can make your own forecasts using Election 1992 – a program that predicts election results using percentages obtained on opinion polls or on the early results on the night of the polling.

Using Mallard BASIC's Jetsam database functions the program allows you to check up on how a percentage swing will affect the result in of any of 635 mainland seats. Northern Ireland seats are missed out (perhaps on the basis that noone can predict what will happen there?).

Even by waiting until an autumn election had been ruled out (calling the program Election 1991 or 1992 would have taken away some of the impact), the author, Pete Birks, has still allowed the maximum amount of time to predict and repredict the result. The long winter nights will surely fly by.

At a mere £4.95 it will surely be the ideal investment for any PCW owning Member of Parliament. For details contact Pete Birks, 181 Friern Road, East Dulwich, London SE22 0DB, tel:081 693 4830.

#### Oops!

So how many keen-eyed readers spotted the two deliberate mistakes in last month's issue? Last month was, as everyone knows, 'Give a Wrong Phone Number Month' and we did our bit by misleading you at least twice.

In the news pages Sword Computers' phone number should have read (0204) 496274 and in the keyboard article CPC's number was really (0772) 555034.

Our apologies to anyone who actually phoned these numbers but, more pertinently, we must apologies to the poor souls who got several thousand perfectly inexplicable phone calls.

#### Home is where you hang your PCW

One side effect of the computer revolution is that you no longer really need to work in an office.

By using modern telecommunications technology, any computer user can work as effectively at home as in a busy office in the centre of a vast city.

Now, anyone interested in 'teleworking', (that's what it's called by the way), can look to a new book to help them set up.

'Home is where the office is' is written by Andrew Bibby, a freelance journalist who regularly contributes to *The Independent* and has even been known to write for a certain best-selling computer magazine, which modesty prevents us from naming.

He should know a thing or two about the subject, having teleworked for the last four years.

It is a practical handbook, offering an overview of the possibilities and a practical how-to guide to setting up your office at home. It also spells out the advantages and disadvantages of the lifestyle.

the advantages and disadvantages of the lifestyle.

'Home is Where the Office is' is published by Hodder & Stoughton at £6.99. Quote ISBN number 0-340-55951-9 when ordering through bookshops.

#### The colourful world of the PCW

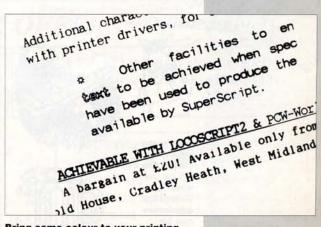
A few years ago the most colourful thing about a PCW was definitely the old 8000 series green screen. Now, some new fangled technology from the PCW-World User Group will actually allow you to print out boring old LocoScript 2 files in full colour.

Of course you also need an external printer that can handle multi-colour printing. For instance, the Citizen Swift 24 with the multi-colour printer ribbon is ideal.

The practical guide for all

Superscript - for that is its name - also allows you to use a choice of fonts anywhere in the document and gives a variety of border effects. If your printer supports it, you can use outline or shadow printing in any font size or colour, enlarged print sizes and reverse print .lt will even give you some additional characters that are not available with other printer drivers.

Or as the publicity material puts it "you can access all those 'goodies' LocoScript 2 can't reach." And this will only cost you £19.95. Contact PCW-World, Cotswold House, Cradley Heath, West Midlands B64 7NF, telephone (0284) 66269.



Bring some colour to your printing even if you can't get it on screen. All this from within Loco 2.

## Waiting for WYSIWYG

Anyone waiting for their copy of WYSIWYG. Logi'stick's utility for transferring files between PCWs and PCs can perhaps blame us for any delay. Now don't get us wrong - we had your best interests at heart when we reviewed the product! In our survey of the file transfer program we made a slight criticism, saying that if you made a mistake during a multi-file transfer there was no way of stopping the process. Logi'stick took this to heart and have rushed off to put the problem right, which has resulted in a slight delay to anyone anxiously awaiting a copy of this useful program. The company assure us that the new, improved version is now available and the copies should be winging their way to their new owners already. Anyone else interested in the program should contact Logi'stick UK Ltd, 13 Denington Road, Wellingborough NN8 2RL, telephone (0223) 423456.

#### **Vive le PCW**

Anyone who has grappled with BASIC, C, Pascal and Assembler, would surely find another language like French simplicity itself.

But, just to make it even easier, there is a new program available on the PCW to help them do just that.

Called Lingo-French (sounds more like Latin to us), the program sets out to teach you French words (presumably Lingo II will teach you the expressive French gestures).

Not only does it teach you the words, it then goes on to test your knowledge using a variety of approaches, including anagrams and games of Hangman.

The words are grouped in easily learnable pages (there are 180 pages in the program) and there is a dictionary to check up on the meaning of any of the listed words.

It certainly sounds like a fun way to learn French. For details, contact Mike Greenwood, College Connection, Newtown SY16 1BE, telephone (0686) 625039.

#### Clip art galore

If a picture is worth a thousand words then the latest Graphics Galore DTP clip art catalogues are worth the equivalent of War and Peace.

Clip art is drawings or images, on all kinds of subjects, available on disc for use in other graphics programs. Three new catalogues, packed with .CUT files suitable for use with the MicroDesign 2 or Stop Press DTP packages, are now available at £4 each including post and packaging.

The catalogues, numbered four to six (numbers one to three have already been issued) each contain 36 libraries – basically a disc packed with 36 different images. These libraries can then be bought for £3 each.

There is a wide variety of images, organised in alphabetical order of the file name. So, you could find you have a library with females and fish on the same disc!

However, it is pretty certain that you will find one or more graphics to suit your needs from a choice of more than 8,000 pieces of clip art. Book seven is planned soon – containing mainly larger pieces.

So, if you are looking for just the right piece of art work contact Goldmark Systems, 51 Comet Road, Hatfield AL10 OSY, telephone (0707) 271529.











#### **ESSEX APPEAL**

This month's main event for the South Essex PCW Club is the forthcoming appearance by Merrick Allsopp of Cornix Software, Billed by the club secretary as "the first ever speaker from a software company to actually come in person to our club", Merrick will not only be discussing his company's products. but also presiding over a "Sellathon" for charity of Cornix software. All proceeds will be going to the Great Ormond Street Hospital Appeal. The last time Cornix pulled a stunt like this (at the M25 Club last January), the event raised over £400 for charity. This time around the club organisers are hoping for "maximum attendance" so it would be a shame to disappoint them.

It'll all be happening on Thursday November 7th. The club can be contacted on 0268 415255 for further details. With a successful AGM and a number of LocoMail and LocoFile demonstrations behind them, we've heard only good news from the club whose main problem appears to be finding enough time at their meetings to show off all their new software.

#### TRADE IN WALES

North Wales Computer Club are inviting all interested members of the public along to their open day and exhibition on Saturday November 9th. The doors will be open from 10am until 5pm at their usual venue - the YMCA, Queens Drive, Colwyn Bay - where they'll be demonstrating a variety of hardware and software. Local traders will be displaying their newest acquisitions and there will even be a 'bring and buy' stall run by members, where anyone can drop by to pick up (or get rid of) computer related items. Among the very latest technology on show will be the new Commodore CDTV, the CD-ROM based multimedia system that looks set to revolutionise home entertainment. Well, that's what it says here.

Due to increasing interest in the club, ordinary meetings are now held twice a week at the YMCA. Tuesday evenings are the business and general nights, while leisure and games get a look in on Fridays. Both gatherings take place from 7 till 10pm, and you can ring the secretary, Brian Hall, on 0492

514004, or the President, David Parry, on 0492 544185 if you have any further questions.

#### **OLD FAVOURITES**

No strangers to this column are the M25 Club of Ealing, who promise to devote the evening of November 18th to demystifying the fine art of CP/M programming and providing expert answers to all your LocoScript queries. Both beginners and experienced users will be welcome from 7.30pm at the Hanwell Community Centre, Cuckoo Avenue, London W7 - further information is available from secretary Tony Brown (081 841 3666, after 7pm) or chairman Ken Ritchie (0992 583744, after 8pm).

Meanwhile up north, the Teeside PCW Users' Group are still going strong, boasting a record attendance of 30 at their recent AGM. Their ambitious range of plans for the next 12 months include a demonstration of MicroDesign 2, a talk on databases, a display of a selection of printers, the production of 'An Idiot's Guide to the PCW', and the (potentially harrowing) prospect of writing BASIC programs by committee. If you'd like to get involved in any of the above, or would just like to meet other PCW users in the area, then Gladys Baker and her 24-hour answering machine will be waiting for your call on 0642 580018.

And last but not least this month is the Hereford Computer Club for both PC and PCW users. Their PCW group meets on the first Wednesday of each month, and continues to gather new members mainly (if their latest newsletter is to be believed) via the "addictive" properties of MicroDesign 2. The recently introduced £10 annual membership fee buys you a regular newsletter and access to a wide range of club facilities - contact David Rose on 0432 267123 if you'd like to know more.

Don't forget that Club News exists to promote your club or user group, and it's all free! So if you've got a worthwhile event or organisation that you'd like to publicise, pop the details in the post to us at the usual editorial address. But hurry! Due to our strict press deadlines, news for December's issue must reach us by the first week in November.

# ONE STOP PCW CENTRE! A to Z Computers & 081-744 1029

Remember:

Our Prices include VAT & Delivery Next Day Courier £8.

# TO RECOVER YOUR FAULTY PCW in 3 hrs, Yes! in 3 hours if you or in 8 days we collect from you deliver to us or in 8 days we collect from you

- Qualified engineer with over 15 years experience
- Large stocks on spares & back--ups.
- All repairs GUARANTEED for 3 months.
- On-site maintenance contract at special rate.

Repair Policy:

- (1) Customer Book-In by phone 081 744 1029 or by fax 081 744 1768
- (2) We diagnose and report a FIXED part & labour cost; charged at £15 per faulty unit or £20 per faulty system, this fee is redeemable against final
- repair bill. (3) Recover your unit at the FIXED AGREED price, including a full

system test before despatch.



Simply give us a ###

call, we shall

provide full

guidance and

instruction!

Complete word processing system 512K RAM 1 x 720K 3" disk drive

Large text screen (white) 90 columns x 32 lines of text Built-in parallel (centronics) printer

20cps daisy wheel printer included LocoScript 2, LocoSpell, LocoMail, CP/M Plus with GSX, Mallard BASIC and Dr Logo included



9256 and 9512 Plus ring for Best Prices. ££ save

#### Kit 1 - PCW 9512 £35.95

- 1-1 Dust cover set (3pcs), monitor, keyboard & printer
- 1-2 Maxell CF2-D DS/DD Disk - Box of 10
- 1-3 Carbon M/S Ribbon x 5 off

#### Kit 2 - PCW 9512 £64.95

- 2-1. All items as in Kit 1 2-2. 3" Drive cleaning kit
- 2-3. Maxifit (Margin Maker)
- 2-4. 2 off-AMS, storage box (10 cap)

#### Kit 3 - PCW 8512 £21.95

- 3-1. Dust Cover set (3 pcs) monitor, keyboard & printer
- 3-2. Amsoft CF2 Disks x 10
- 3-3. Carbon and Fabric ribbons I each

#### Kit 4 - PCW 8512 £36.95

- 4-1. All items as in Kit 3
- 4-2. 3" Drive Cleaning Kit
- 4-3. Margin Maker MM3i
- 4-4. 2 off-AMS storage box (10 cap) (more special offers - see our Inside

PANASONIC KXP-1124i 24 Pin Dot Matrix £299.95

## SPECIAL FAX & PRINTER OFFERS:

AMSTRAD FAX 9600 AT £449.95

CANON FAX FX-80 £359.95

CANON **FAX FX-120** £569.95

**NEC P20 PRINTER** 24 Pin Dot Matrix £269.95

## A to Z COMPUTERS

Address: 132 Heath Road, Twickenham, Middx., TW1 4BN (10-5.30 Mon-Sat)

Tel: 081-744-1029/2354 Fax: 081-744 1768

(All products carry 12 months manufacturers warranty)

- \* prices subject to change without notice, and for UK & BFPO orders only.
- ★ Official orders from Educational & Govt. Authority are welcome. (£50 min.)
  - \* All trade marks acknowledged.



# The New PcWs

Twelve months of speculation are over: Amstrad have finally unveiled their new PcW range. This month, we take a look at the PcW9256 and PcW9512+, and answer some of the many questions which you have been sending in. From cosmetics to compatibility, we bring you all the information you'll need to know about the new machines! So, let's get cracking!

## Put the boot in

One unusual feature of the new machines is that it appears you can only start up using a disc that has been formatted on that particular kind of machine. It appears that slight differences in the boot track mean that a 9256 disc will not load up CP/M on a 9512 and vice versa.

#### How much?

The prices of the new PeWs (including VAT) are as follows: PcW9256 - £410 PcW9512+ (with daisywheel printer) - £527 PcW9512+ (with Canon BJ10-e) - £645. At the time of going to press, the machines were not vet in the high street shops. However, it is hoped that by mid-November, you will have absolutely no trouble getting your hands on one in Dixons, Currys, Comet and other leading electrical

#### COSMETICS

Question: What do the new computers look like from the outside?

Answer: There are no big surprises here. The 9512 Plus uses the old 9512 casing. The 9256 is smaller than the 9512 Plus, but has a similar shape.

The size of the 9256 was what seemed to attract most interest at the Business Computing Show, where the two new machines were officially launched. The overall dimensions are: 31cms wide, by 35.5 cms tall, and 29 cms deep. This compares to the 9512 dimensions of 34x41x34, and 8000 series dimensions of 34x41x31, and represents a substantial saving on space.

The monitor unit, an off-white colour, contains the guts of the machine. The monitor is not detachable.

The 9256 screen is a definite improvement on the 8000 series. It is now 'paper white' (white characters, that is, on a black background). It is physically smaller than the older screens, but still displays the same number of characters - 90x32.

This has two opposing effects. On the down side, people who suffer from eye-strain and other visibility problems are not going to be helped. On the plus side the smaller screen will mean that graphics will be more compact, and judging by our first reactions, will look much better.

Below the screen, and on the right, is the 9256's disc drive. As we know, it is a 3.5 inch drive - a Citizen UODC-45A, holding 720k of data. Nobody at Amstrad knows why it is on the right rather than the left.

The light (for those worried about aesthetics) is green. Below it is the input socket from the keyboard - more prominent than that of the 8000 series, but considerably more accessible than on

To the left of the existing drive is the logo - 'PcW', with the inexplicable lower case 'c' - and above that the brightness and contrast adjusters.

Below it is the on/off switch, part of a bar of plastic which caused much speculation at one point (was it a hard disc or the covering for some mysterious new third disc drive?).



The PcW9256 has a sleek, streamlined appearance, and would look at home in any office

Question: What ports are there on the back for connecting printers and other add-ons?

Answer: Officially there is only one connector at the back of the new computer - the printer port. However, there is also a piece of removable casing, under which lurks an edge connector familiar from the back of existing PCWs. It has had to be covered up to comply with new regulations on radio interference but anybody with a screwdriver should be able to remove the cover without problems.

There are problems, however, with its siting on the 9256. Not only is it positioned at the bottom of the unit, it is also recessed. There seems to be no good reason for this. New add-ons will have to be designed to cope with this new configuration but at least it looks as though such products will now be able to sit on your desktop, rather than float

perilously in mid-air. The computer's mains lead is now detachable. This will come as a relief to those who move their computer round a lot - no more tripping over the wire. The connector is one of those of the three pin 'kettle' models.

Question: Does the PcW9256 have a different keyboard?

Answer: Both the keyboard and the printer are the same as previous incarnations of the 8000 series, but with redesigned casings. Curves are the order of the day, the colour tying in with the off-white of the monitor case. This means that the far-from-convenient arrangement of the keyboard remains (although it has been prettified by making some of the keys grey and some white, as on the 9512 keyboard). The print quality of the old dot matrix also remains the same.

**Question:** The 9256 seems to be quite different in terms of design. Is the same true of the 9512 Plus?

Answer: No. Those familiar with the looks of the 9512 - and that should be all 8000 Plus readers - will find little new about the 9512 Plus. Cosmetically, the machine is virtually identical to its predecessor. The edge connector is again covered up, but the old serial port

remains intact. The machine is available with a choice of printer, however, offering either the standard daisywheel or the Canon BJ10-e. If you take the option of the bubble-jet printer, you will find that that, too, has been given a new, off-white casing.

The keyboard remains the same, and the dot matrix printer comes with the sheet feeder that has recently become standard with the 9512. **Question:** I am used to putting my 8000 series printer on top of the monitor. How can I do this with the new, streamlined design?

Answer: The new PcW is designed to be a compact unit and has special clips and slots, specifically designed to allow the printer to be attached to the top of the monitor. Much less precarious than the existing arrangement.

#### MECHANICS

**Question:** Are there any internal changes from existing PCWs?

Answer: The physical internal changes are, on paper, minimal.

Although the drives now use 3.5inch discs rather than the old 3 inch ones, the machines remain effectively the same as the old PCWs. Both allow space for the

fitting of a second drive. However in the 9256 in particular, the space for the second drive is quite tight and seems only just big enough to take the drive - and little else besides.

The smaller size of the 9256 casing means that such internal spaces are at a premium. It seems hard to imagine bulky internal upgrades, such as the installation

of Sprinter, and although fitting extra memory chips will be possible, the sockets for such an expansion are pretty well hidden.

The good news is that Rampacs and external Sprinters will be available for the machine in the near future - see below for details - and so internal upgrades may become unnecessary.

#### **BUNDLED SOFTWARE**

**Question:** Is LocoScript still supplied as standard?

**Answer:** Yes. LocoScript will accompany the new PcWs and play just as important a part in its everyday life.

The main surprise is that it is LocoScript 1 that accompanies the 9256, albeit in the upgraded version 1.5. The reasons for this bundling of the old with the new is presumably a financial one on Amstrad's part.

Locomotive do not seem too unhappy about this - LocoScript 2 is already available for the 9256, and given that LocoScript 2 allows the compatibility of LocoMail, -Spell and - File, as well as supporting external printers, it is a fair assumption that many people will upgrade to that version sooner rather than later. The version they will then receive is LocoScript 2.32 - a new upgrade.

LocoScript 2, though, will be bundled with the 9512 Plus from the outset. This, too, will be a new version (2.33 - these new upgrades will be released at a later date for older PCWs), and will include Spell and Mail facilities, as on the present 9512.

A new LocoFont package -LocoFont BJ - has been produced to go with the 9512 Plus and bubble-jet printer. This too will be made available to other users at a later date. **Question:** Which operating system does the machines use?

Answer: Despite the occasional speculation in the industry that the new machines would use MS-DOS instead of CP/M, there has never been serious doubt that CP/M would continue to hold sway at the court of the PCW.

However it uses CP/M Plus (or 3) v1.11, an upgrade on present versions.

All the old utilities are still present - PIP, DIR, SHOW, TYPE, DISCKIT, SID - as well as the two programming languages BASIC (still the Mallard interpreter, in a new version - 1.47) and Digital Research's LOGO. BASIC programs from the old PCW Mallard should run all right, although some pokes may not work on the new machines.

The two old assemblers MAC and RMAC are also bundled, along with their associated linking and library files. A couple of new files have appeared, neither of them a PCW - PC transfer system, unfortunately.

One of the big considerations is how much you can get on a discs - 720k is a lot of data and the whole of the PcW's CP/M now lives on one disc, with 124k to spare. 9512 owners will not bat an eyelid at this - they are used to it. They are only likely to raise half an eyebrow at the PROFILE.SUB which has appeared on the disc.

When you boot-up CP/M, this file automatically sets the machine's search paths, so that commands on the M: drive can be used as if they were on the A: drive. You can also treat .SUB files as if they were .COM files.

In addition, the PROFILE.SUB also causes a batch of files to be copied from the A: drive to the M: drive. Again, this happens on the 9512. But here it causes a problem. Once they are all copied across, only 29k of space remains on drive M:.

As a consequence, if you do not wipe your M: drive before starting, you can expect to have to make 24 disc changes when you are copying a disc using DISCKIT. Clearing the M: drive brings this number down to 10.

The eagle eyed among you will have noticed that the boot-up filetype has been changed from .EMS to .EMT. This should have little effect on 'legal' CP/M programs (those which obey all the rules - see below). All this means is that the computer has been told to look for an .EMT file when you turn it on rather than a .EMS file. It seems to have been implemented purely as a precaution - so that people do not try to boot the machines with an old .EMS file.

Inside the file it seems that the only details which have been changed are some of the BIOS calls - see the software section below if you are interested in how this affects existing programs.

# Manuals and further information

Question: What documentation is there for the new machines?

Answer: On the evidence of what we have seen, the documentation is not very comprehensive. The 9256 manual is skimpy - it deals only with LocoScript 1, not CP/M, and although what it does say is an improvement on the original LocoScript I manual, it is still far from ideal: At least there is help at hand for 9512 Plus owners. They will find two new LocoScript 2 books aimed directly at them - LocoScript 2 on the Amstrad PcW9512 Plus, and a companion volume on LocoMail. They proclaim themselves The Definitive Guides' and are undates on Locomotive's excellent LocoScript 2 manuals. They are available from Locomotive. Finally, the Mallard **BASIC** manual is also available from Locomotive. We confidently expect that other new books will appear for these machines and, of course, all the older PCW books are still relevant.

#### **HARDWARE**

Question: What hardware will be available for the new computer? And how does the change in expansion port affect the use of add-ons?

Answer: Most existing PCW hardware add-ons should be capable of supporting the new machines. Keyboard add-ons, for instance, will need no alteration. This means that the Tequiche

keyboard and the new KeyMouse from Creative Technology are both immediately available for the machine.

The major problem for other hardware will be the 9256's expansion port. The 9512 Plus should be able to support the all existing add-ons, including Sprinter, Rampacs hard discs and extra external drives. External printers, which are becoming more and

more popular, should also prove no problem. No more problem than they have always been, that is.

The situation with the 9256 is still developing. SCA Systems are among the first to respond to the new challenge, announcing a new series of add-ons which including one with a Centronics Interface, another with a Serial Interface, as well as a short adaptor cable - a

Summary

The new PcWs,

significant new

as the existing

models. Indeed.

Amstrad never

impressive though

they are, break no

ground - they are

essentially the same

pieces of equipment

intended to release a

mould-breaking new

home computer, but

rather to build upon

the highly successful

original formula of

the existing PCWs.

models into line with current technology. The cosmetic changes

indicate Amstrad's

entry level business

widely-used 3.5 inch

the aggressive pricing

of the machine, could

give the new PcWs

just the edge they

commercial interest.

need to attract

widespread

drive, coupled with

market, and the

addition of the

aim to break into the

bringing the new

'Dongle' - to allow existing products to fit on to the new machine.

They will also be launching the PRO9256, a 256k Rampac combined with a Centronics Interface. As these two features are the main differences between the two new machines, SCA claim this attachment, will practically upgrade the 9256 to a 9512 Plus. All

these products should be available in the near future.

Cirtech, manufacturers of Sprinter and the new Gem hard disc, say that their products will be available for the new machines, although external Sprinters for the 9256 will have to be reshaped. They also have other plans in the pipeline.

ProSCAN from Creative Technology, too, has been given the green light - all that will be required will be a short adaptor cable.

One piece of hardware/software which will not be available for the new machines is LocoLink. With the new 3.5 inch drives it has become (effectively) obsolete in any case.

#### OTHER SOFTWARE

Question: What software will be available for the new computer?

Answer: As we've already seen, all Locomotive programs are already available, with minor improvements, for the new computers.

As for other existing programs, the official line is that, as long as they abide by the all the 'CP/M rules', there should be no problems.

In general, this means that programs which you start up from the A> prompt are OK. Others may need looking at.

One program that definitely falls into the latter category is Flipper, along with its stablemate, Foreword. New versions of both will be available for the new machines.

The other main category of programs, which may have trouble adjusting, are games. Although the majority should run without too much problem, some of those that use detailed graphics may crash. Make sure that you check compatibility with the manufacturers before you purchase. BASIC games programs should be fine.

There should be few problems with the more serious CP/M applications.

MicroDesign 2, Mini Office, Cracker and Protext, all are reported - or tested - to work on the new machine. The only questions may be raised by the arrival of the bubble-jet printer. On the other hand, some companies - Creative Technology in particular - are positively welcoming the new printer.

We've just received confirmation of a software release specifically for the new PcWs - the "PcW Works". A joint venture between SCA Systems and Logi'stick Software, this will include a Database, Spreadsheet, Word Processor and MS-DOS to CP/M file transfer. It also supports Rampacs and hard discs. Looks like it could become a standard product for the new range.

The biggest issue concerning new software, though, is the size of the discs. Leaving aside the fact that the old 3 inch discs are becoming even more scarce - Amsoft have now officially stopped supplying such discs - there is the problem of distributing program discs to a divided market. And remember, it is not just the physical size at issue - the old 173k against 720k problem still exists. Programs could be developed that just won't fit on the old discs.

A similar situation has be-devilled the PC world for a long time and there is still no general consensus on how it should be approached. Some products are distributed with both 3.5 and 5.25 inch discs in one package. Others are distributed separately.

It seems likely that in time new releases for the PCW will not bother with 3 inch discs. In the meantime, manufacturers have the choice of dual format boxes (with both 3 and 3.5 inch discs) and single format boxes (in which you buy the box containing the format that suits you).

Most convenient for the purchaser would be the dual format package - no difficult questions, no misunderstandings, no wrong labels.

However, the manufacturers are naturally reluctant to release potential programs for two computers in one box, and for one sale. As far as manufacturers are concerned, raw material disc prices are negligible, but giving two versions of the program may seem dangerous.

The most sensible approach to buying new software must be to specify, when you buy, what sort of disc you need and the machine you need it for.

#### **SOFTWARE - TRANSFER AND COMPATIBILITY WITH OTHER MACHINES**

Question: What if I want to use the same programs that I have bought on 3 inch disc on my new PcW?

Answer: Good question. You will certainly not want to buy a new copy of the program. The flip side of this is the software company's view - that if you use a second computer, you should pay for the privilege. If you buy a new PcW, the assumption is always there that you have still got your old one as well.

In practice, it seems unlikely that software houses will be quite so Draconian. Some suggestions have been raised within the industry: that users of the new PcW should get a new program disc if they send back the old 3 inch master disc (a symbolic rather than practical gesture), or that registered owners should get a special cheap rate on new discs in the same way that they would get an upgrade of a program.

It must be emphasised that policies have not yet crystallised and that new ideas may emerge. But at the moment, a long and vociferous debate seems set to begin and it may be some time before we see a standard policy emerging. **Question:** What if I want to transfer data files between my 3 inch discs and the new 3.5 inch format?

**Answer:** Obviously, the easiest way of achieving this is to fit a 3.5 inch drive to your existing PCW. Then you can simply remove a disc from one machine and use it in another.

You could also connect two machines via a serial cable and use the MAIL232.COM utility to effect the transfer (for those who are interested, MAIL232 still contains the Game of Life!). Or you could PIP.COM or even buy a copy of one of the simple comms program although you will need to buy a version for each machine.

Whichever of these previous options you choose, though, bear the comments in mind if you are copying programs.

**Question:** Are data files compatible with MS-DOS machines?

**Answer:** The 3.5 drive has made communication with other computers much easier - and at least with the new PcW, the disc size will be the same.

However, you cannot simply take the 3.5 inch PcW disc, put it into a PC and expect that machine to read it. Transfer is a matter of shifting data from one format (CP/M) on one disc, to another disc of a different format (MS-DOS), using the same drive - and the appropriate 'customising' software.

As far as we are aware, there is only program that will control this process from the PcW - Moonstone's 'Toolkit', which is already available in 3.5 PcW format. This will copy on to MS-DOS PC format discs. Other programs have a greater range of formats to which they can copy, but they do have to be initialised from the destination computer rather than from the PcW. Remember that 3.5 inch discs are now used on the Apple Macintoshes, Ataris, Amigas, Archimedes and many other machines as well. A particularly impressive utility is the shareware product 22DISK. Phone ShareWare Elite on (0326) 564164 for a copy. But beware. There's a lot of file uncompressing to be done, simply because it allows such a wide range of alternative formats to be accessed. T-READ from Timatic systems is another means of doing the same thing.

# With LocoFile, your PCW can have a powerful 'card index' database.

The chances are, you currently think that your PCW can't do much more than word processing.

But now you can add LocoFile from Locomotive Software, and have a powerful, yet easy to use database.

It's just like having a card index stored inside your PCW.

You can lay out your cards in almost any way you like. Sort and index them alphabetically, numerically or by date and cross reference them up to eight different ways.

And, working with the menus you're already used to with LocoScript 2, you can instantly call up a card on screen even if you're in the middle of editing a document.

Then simply transfer the information into your document without even having to re-type.

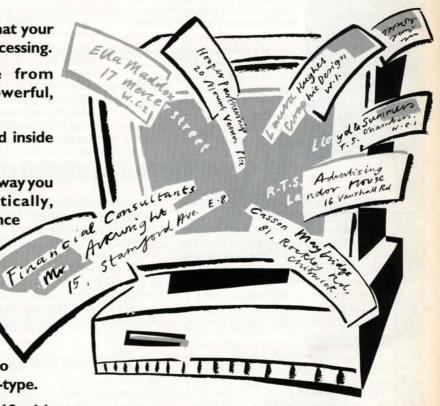
If you have a PCW 9512 or an 8256/8512 with LocoScript 2, you can simply add LocoFile.

But if you've a PCW 8256/8512 with the original LocoScript, you'll need LocoScript 2 and LocoFile together.

Which, bought as a package at £44.90, means that for just £9.95 you can upgrade to the more powerful LocoScript 2 and almost treble the speed of scrolling through your documents.

In short, whether for business, club or personal use, we've given a new dimension to your word processor.

For more information, simply fill in the coupon or phone Katy Buchan on (0306) 740606.



# LocoFile

| Please send me r<br>the LocoScript 2   | nore information on LocoFile and Family |
|--|---|
| Name   | epurped during the                      |
| Address  |   |
| Postcode   | Tel:                                    |
| THE RESERVE OF THE PARTY OF THE | LOCOMOTIVE<br>SOFTWARE                  |

# **Beginning Basic**

We begin a new series looking at the most popular programming package for the PCW. You too can tell your computer what to do!

#### More!

When you have become accustomed to the way BASIC works, why not try your hand at some longer programs? Turn to our Listings section which begins on page 54 of this issue for some examples!

#### What is BASIC?

BASIC is probably the best way that you have of getting to the heart of your computer. It is a programming language.

The concept of 'Programming' usually conjours up images of boffins with odd-shaped heads and bleary, VDU-damaged eyes, or of small children who seem to understand computers better than teddy bears. Whatever the image, it is usually of an exclusive club.

The reality is not like that. Anybody can program a computer. If you use LocoMail or Protext's Mail merge facility, if you have ever used a database or spreadsheet program to store your own data, if you've ever written a 'PROFILE.SUB' file, then you've programmed your computer.

But, you'll say, that is different. That's just customising a program that somebody else has written. But the point is that you are actually commanding the machine. Using any programming language is, in effect, just a matter of using a program which somebody else has written.

OK, you'll say, but isn't it dangerous to fiddle around telling the computer what to do? The answer is a definite no. A programming language is only as good as its safety nets, and BASIC's safety nets are very good indeed. It will not let you harm any existing programs or software, far less can you harm your machine. There'll be none of those dreaded 'crashes' if you use BASIC. And a final myth to dispel -

programs for the computer do not have to be complicated. They can be as simple as asking "What does 2+2 equal?".

Or they can be as complicated as a flight simulator. But for the moment we will be sticking to simple programs, and for this article, we will investigate the most basic aspects of BASIC: how to find your way round a program, and how to produce some text on the screen.

There are many versions of BASIC. The one most widely used for the PCW is the one that comes bundled with it - Mallard BASIC. It is written by Locomotive software, the same people who brought you LocoScript, so you know you can trust it! Now let's have a look at how to get started

#### STEP ONE: HOW TO LOAD BASIC

There are two types of programming language. There are compilers and interpreters.

Compilers produce code that the computer can understand in its own numerical language - the programs they produce can be run directly from CP/M's 'A>' prompt.

Mallard BASIC, however, is an interpreter. Just like the little man with earphones and a furrowed brow at the U.N., it listens to what you have to say and then converts it into something that the computer will understand. But the translation is ephemeral - it has to be retranslated each time that you use the program, or indeed, each time that a part of the program is re-encountered.

Which means that before each BASIC session - whether you're writing a program, or running one written by someone else - you'll have to load BASIC. To do this, put your CP/M disc in the A: drive (CP/M is the reverse of the

LocoScript disc if you have an 8000 series machine, and the 'other' disc which came with your PCW for the 9000s), and then re-booting it by pressing [SHIFT][EXTRA][EXIT] at the same time, or simply by switching the machine on.

When the PCW settles down, you should see what is known as the 'A>' prompt.

At this prompt, type in the word BASIC (not necessarily in capitals) and then press [RETURN], and BASIC will be all ready to use.

#### STEP TWO: QUICK MATHS

So, having got BASIC installed, it's down to business. Mallard BASIC has two modes: the direct and the program modes.

Direct mode means that you give the computer an instruction, and it obeys it immediately. Ask it, for instance, to PRINT 2+2, and press [RETURN], and it will come straight back with the answer "4".

Or ask it to multiply 25 by 16 by typing PRINT 25\*16 [RETURN]. The answer will come back just as quickly as did 2+2.

And it can go further: type PRINT 5^5 [RETURN] (the '^' character is [EXTRA]+[U], and may look different on your screen, but still means 'to the power of), and you will get the fifth square of 5.

Very quickly.

Or ask for the square root of 27594.148 (PRINT SQR(27594.148) [RETURN] - the brackets are essential) and you will be told the answer.

Your PCW can cope with sines, co-sines, tangents and logs as well - simply bracket the angle, in radians, after the mathematical abbreviation: PRINT SIN(3.8964) [RETURN]. If you fancy yourself as a mathematician, try some combinations of these.

Note that multiplication is signalled by '\*', and division by '/'. If nothing else, then, you could well find yourself using BASIC as a powerful calculator.

#### STEP THREE: VARIABLE MOOD

Remember 'If x=x-y, what is the price of bananas'?. The sort of algebra you did at school seemed to bear no relation to real life, and referring to numbers by letter (in the above example x stands for one number, y for another and - did you notice - 'the price of bananas' stands for a third number).

When it comes to computing, however, being able to refer to a number with a letter becomes almost essential. You've got three equations to work out which involve PI. This could mean typing 3.141592 three times, along with all the rest of the equation.

But wouldn't it be simpler if you could tell the PCW what PI is, and have it remember it? It would, and you can. Type PI=3.141592 [RETURN], and then type PRINT PI [RETURN]. Hey presto!

Now you can include PI as part of your calculations, for instance: PRINT PI\*5^2 [RETURN] for the area of a circle of 5 units' radius, or PRINT 2\*PI\*5 [RETURN] for the same

circle's circumference. But what if you need to then use the result in another equation?

Do you have to type it in again? No - you don't. Just give the result of the first equation a name: AREA=2\*PI^2 [RETURN], followed by PRINT AREA [RETURN] will give you the same result as before.

Now to square that result, you can type: PRINT AREA^2 [RETURN], and yield a new result.

The only thing you do have to remember is that the result comes first - 2\*PI\*5=AREA would

be no good to the computer. It needs to know what it is defining (ie 'AREA') before it does the calculation).

The reason is that it labels the result, and files it away in its memory (as it did with the Pl=3.1... earlier); it must know which shelf it is

going to put the number on before it knows what the number is.

This is an important part of BASIC, and one which will eventually come naturally to you: if you are going to give something a name, then you refer to the name before telling the computer

what it is. The technical term for the name and its assigned number is a variable - for the simple reason that its value can be varied.

Type PI=PI+4 [RETURN], and print it - and send centuries of Euclidean geometry straight out of the window!

#### STEP FOUR: STRINGING ALONG

But there's a question hanging around here. If I ask the computer to print PI, it says "3.141....". But what if I want it to say "PI"?. Or "RABBIT"? Or "Price\_of\_bananas".

The way we've been operating so far, the computer will give either a number, if one has been defined, or else '0', if no number has been assigned to that word.

You can conquer this problem by putting inverted commas around the text you want printed. So to print 'PI', type PRINT "PI" [RETURN]. To print 'price of bananas' type: PRINT

"price of bananas" [RETURN]. You can mix the two up, as well: PRINT "PI "PI [RETURN] will print both the text and the number.

This brings up a fundamental point: text and numbers are two different concepts. The computer handles them differently. Putting text in the inverted commas makes it sacrosanct: it cannot be subject to the same vagaries as everyday numbers.

You can still assign text to a variable, but it is no longer a variable: it becomes a 'string' (technically a 'string variable', which is only

slightly less of a mouthful than a string vest). You signify its string status by adding '\$' at the end of it (when reading a program, refer to '\$' as 'string', so that 'name\$' is 'name string' - it's much easier on the ear). So you could assign 'Rumplestiltskin' (the word) to 'a\$'. Try this: a\$="A word" [RETURN] PRINT a\$ [RETURN].

You can add strings together as well - not mathematically, but logically. With a\$ already programmed, type b\$=" is a string by any other name." Press RETURN] PRINT a\$+b\$ [RETURN] to see it.

#### STEP FIVE: INTERFACING THE FACTS

But computers do not work in isolation. Their most important job is processing information that we humans give them. So the next step is getting the computer to ask the user for the values to attach to certain labels. The command for this is "INPUT", followed by the name of the variable it is to expect. Type INPUT twenty [RETURN], and the computer will wait for you to make an inputit even gives you a question mark as a prompt!

Answer it. Type in 23 (the computer is expecting a variable, since 'number' hasn't got a '\$' after it) - and press [RETURN]. Now type PRINT number [RETURN], and you will find that

the label 'twenty' refers to '23'. No matter - just type twenty=twenty-3 [RETURN], and mathematical order will be restored.

You can use INPUT for strings as well, as long as the label you give finishes with '\$', the string marker. INPUT word\$ [RETURN] will give the same question mark prompt, but will now treat everything you type in as text.

Try the following:

INPUT a\$ [RETURN] Jack [RETURN] INPUT b\$ [RETURN] and Jill [RETURN] PRINT a\$+b\$.

One further refinement of the INPUT command makes life very much easier if you are

putting together a program with lots of inputs, or for somebody else: after the command INPUT, and before giving the input label, you can add a string as a prompt for the user.

INPUT "What do you want x to equal ";x
Notice that you need to put the prompt in
inverted commas, and follow it with a semi-colon
(you can use a comma instead - which means
that the question mark will be omitted).

These little details are essential for BASIC. If they are wrong or absent, then the program will simply refuse to carry out the command. Be sure to check every entry thoroughly!

#### STEP SIX: LINING UP

All this shows the power of BASIC, but it is not a convenient way of programming. At the moment, both the programmer and the end user have to use the same computer at the same time!

What we need is a way of storing commands so that they can be executed one after the other, with no further input required from the original programmer.

The way BASIC handles this is by using line numbers. At its simplest, the system works as follows. Each line contains a command or

expression (of the sort PI=3.141592). The computer finds the lowest line number, and executes that line's command. Now it finds the next highest line number, and executes the command in that line, before moving on again.

There are ways of 'redirecting' the flow, and of putting more than one command in a line, but we'll come to them in another article - the main thing to grasp now is the idea of program flow.

The important issue now, of course, is to make sure that things come in the right order.

It's no good telling the computer to PRINT name\$ in line 10, and then saying name\$="Achilles" by way of explanation in line 20: by then it is too late. Invert the order, and things will be fine.

Getting things in the right order is a matter of organisation: you have to think about how you would carry out an action before you get the computer to do the same. But more of this side of programming - the 'program structure' - in future. Suffice to say, without program structure, even the best safety net will be useless!

#### PRACTICAL EXERCISE: RUNNING A TEST PROGRAM

Finally, a real program. It uses most of the features we have discussed above to calculate the area of a circle. See if you can understand how it works - and perhaps even use it as a model for your own experiments. Simply load BASIC, and when you have typed it in - line numbers and all type RUN [RETURN], and answer its questions!

If the program stops and gives a message, type LIST [RETURN], and check every detail. When you find the mistake, either type EDIT followed by the line number in which the mistake occurred, or else re-type the whole line.

```
A)BASIC

Mallard-80 BASIC with Jetsam Version 1.29
(c) Copyright 1984 Locomotive Software Ltd
All rights reserved

31597 free bytes

Ok
10 INPUT "What is your name ";name$
20 INPUT "What is the radius of the circle ";radius
30 PI=3.141592

40 area = PI*radius$2
40 area = PI*radius$2
40 area = PI*radius$2
RUN
What is your name $\text{Martin}$ the area of that circle is "area" units"
RUN
What is your name $\text{Martin}$ Martin, the area of that circle is "area" units"
RUN
What is the radius of the circle $\text{3.65}$
Well, Martin, the area of that circle is 41.85386 units
Ok
SAUE "AREA"

Ok
```

Use your new-found knowledge of BASIC to type in the program listed opposite

To save it, type SAVE "PROGNAME" [RETURN]; when you want to use it again, make sure BASIC is installed and type LOAD "PROGNAME" [RETURN]. Save any programs you invent to disc as well, giving them a relevant name. Here's the program

10 INPUT "What is your name ";name\$
20 INPUT "What is the radius of the circle ";radius
30 Pl=3.141592
40 area = PI\*radius^2

50 PRINT "Well, "+name\$+", the area of that circle is "area" units"



# Thurston techniques

## \* LOCOSCRIPT USERS \* LOCOSCRIPT 1, 2 or PC

A showcase for the features of LocoScript" APCW Sept '87 Hundreds of Instant Templates designed by a Member of the Institute of Word Processing

TempDisc 8.2 s a Double Density disc, with 133 files 1706)k for LocoScript 2 and LocoMail and notudes files for Business. Sport or Personal use: It is available on 3, 31/2 or 51/4 disc and includes Locomain and LocoChar features. All TempDiscs ordered direct are personalised so please include your Christian names. Files on the 8.2 disc include:

\* CHRISTMAS:Cards new envelopes with Christmas designs, bordered greetings, Christmas neader, and these Christmas LocoCharacters (also TempDisc 2)

#### 統教の崇与の自動を大口中間

\*GENERAL: Liferime diary "to yr 21001 3 year calendar agenda, minutes, 5 label choices", envelopes' inc. New designed 1st Class. AirMaii. Private. Personal etci, disc labels, menu, order form, organiser/planner templates, compliments, 23 instant letterheads inc LocoChar double lined boxes. \*FINANCE & FIGUREWORK: Invoices" statement", calculator", spreadsheet layouts' metric converter file" payment advice", annual statement of account, two LocoCMail Games. \*WRITERS: Authors script layouts for film. TV and stage and radio. (See also WordDisc for 39,000 word synonyms option). \*LISTS & FORMS: School marking chart, weekly diary, inventory, appointment diary, shipping doc. production sccnedule, personal file, c.v. will, 3 choices of vettical lined layouts ladd your own neadings). \*SOCIAL & SPORTS: Star signs, family tree, automatic fixture lists". KO draw and chart, first day cover: fickets', party invitations, league tables, apology for abysmal behavior at a party, screen-art and div., new LocoChar Artset Sport Versions of 8.2 and 9 also available.
\*LOCOSCRIPT FILES: Template Std with prepared stock layouts, pitch guide, settings. Std with 10 pre-set choices, ingenious use of phrases. Std files.

"Tempdisc PC has three versions. SPORT. BUSINESS or PERSONAL each available on One  $3^1/2^\circ$  or Two  $5^{\circ}/2^{\circ}$  discs they include LocoMail and DataBase (LocoFile) features. Sport versions of TempDisc PC 8.2 and 9 include automatic FIXTURE LIST COMPILATION and PRINTING, Tournament Chart entering, seeding and byes, match scheduling, umpires tickets, league tables all courtesey of LocoMail routines and designed by a Tournament Referee. TT library comprises FoneMate. WordDisc and a choice of TempDisc 9.2.9 or PC."

LocoScript 1 TempDisc 1 - double sided Drive A
LocoScript 2 TempDisc 2 - double sided Drive A
LocoScript 2 TempDisc 8.2 (or 8.2 SPORT) Drive B
PCW 9512 TempDisc 9 (or 9 SPORT)
LocoScript PC TempDisc PC - Sport, Personal or Business
(2 x 5' 4 or 1 x 31'2) TT Loco Script Library

LocoScript Distance Learning Pay as you learn Disc based with telephone suppoert s.a.e. for details

£18 £19 £21 £21 £23

SPECIAL TEMPDISC 2 CHRISTMAS EDITION 1991

SPECIAL TEMPDISC 2 CHRISTMAS EDITION 1991

Characters plus a greater variety of Christmas Templates with colour printing options.

Plus two games for LocoMail users. See APCW November Review

£10.95





TempMate (Design Copyright Sept 1986)

MARGINS, TABULATION AND LINE POSITIONING
FOR ALL WORD PROCESSOR USERS

Versions for scale pitch 15, 12, 17 or 10 and for Landscape. Place the clear PVC gnd over your form or letterhead and correct positions for Margins. Tabulation and Lines are clearly seen. Additional useful wordprocessing information is on the attached backer curd. Its so simple it doesn't need further explanation. Reviewers have said: like many simple tinings extremely useful BBC CEEFAX.
"Excellent" Comp WAPCW SEPT 87. "Wonderfully simple idea" Your APCW Jan 87.
"Excellent, the Dest I have seen" APCW Jan 87.
WORD PROCESSING RULER.

The Page Boy word processing ruler is a clear PVC ruler which measures.

The Page Boy word processing ruler is a clear PVC ruler which measures characters per inch at 17, 15, 12, 10, 5,1001, 6 & 7 1, 2 and, lines per inch at 5, 1/2 and 8, it also includes a centimetre line and the 10° line doubles as an inch measure. In total it has 13 options.

WordDisc The author's companion. Script layouts for stage, tv. film and radio. A Thesaurus/synonymus LocoFile of approximately 6000 main words and 33000 alternatives. DD PCW 3, 3½ or 5½ discs. PC 3½" only. FoneMate National & International dialling codes and exchanges in LocoFile. Record file with 13 text/extract LocoMail files for labels & lists. 5 year calendar. 1992 diary, appointment diaries, personal file and LocoMail games. DD PCW 3, 3½ or 5½ discs. PC 3½" only? XWorder A large assortment of crossword grids for compilers, 15x15, 13x13 and 12x12. Designed within the limitations of the word processor. Loco Script 1, 2 or PC.
TT Patience Six games of card patience described by yAPCW as "ingenious and highly addictive".

and highly addictive

| TEMPMATE £5.95                        | PAGE BOY £2.95         |
|---------------------------------------|------------------------|
| Set of 4 TempMates & Page Boy .£18.75 | XWorder 1/2 PCW£15.00  |
| XWorder PC 3 1/2 / 5 1/4" £17.00      | FoneMate PCW £16.00    |
| FoneMate PC 3 1/2" £19.00             | WordDisc PCW £17.00    |
| WordDisc PC 3 1/2" £20.00             | TT Patience PCW £14.95 |

Quantity and trade prices on request. Retail, schools and local authority enquiries welcome. All prices include VAT and UK Post and Packing, 48 hour despatch.



Thurston Techniques FREEPOST Exmouth, Devon, EX8 2YZ Telephone or Fax: 0395 277496



#### PROFIT FROM YOUR MICRO £14.95 Comprehensive step-by-step 60 page guide

#### Recession? What recession? Make your micro earn

- Whatever the make of your micro, you can use it to make a good income even with only a couple of hours spare each week. Ideal for those at home/unemployed.
- NOT pie in the sky, make a million before breakfast nonsense but a true report of exactly the sort of steps we took ourselves at Intraset.
- Easy, sensible business ideas which can easily be used by anyone with any micro. Part or full-time.
- No computer expertise required. Earn £££ from home doing what you enjoy - using your computer.
- Very little capital outlay needed you probably have everything you need to start earning
- Learn how to find hundreds of potential customers in your area who will gladly pay for your services.
- Full step-by-step 60 page book

#### Phone or Fax for lightning service. Send cheques or postal orders to INTRASET LTD FREEPOST, 10 Woodside Avenue, Clayton-Le-Woods, Chorley, Lancashire. PR6 7BR.

TEL 025 72 76800 Main office & 24 hr order line Fax 025 72 74753 Helpdesk 0490 3284 Weekdays 3-4pm

All major credit cards accepted All prices include P&P and VAT Overseas orders add £5.00

Intraset Ltd

#### Home and business accounts £39.95

Cashmaster is the easiest to use, most versatile accounts program yet written for both small business accounts or home finance. We wrote CASHMASTER for our own use, out of sheer frustration with other 'easy to use' packages.

Just look at Cashmaster's main features:

- Easy, natural data entry just like a handwritten ledger.
- Full vat analysis if needed
- VAT inclusive, exclusive or zero-rated entries
- Unlimited no. of ledgers at one time limited only by disc space
- Span any time period no set period or 1 year limit
- 1000 User-definable class and 1000 accounts codes
- **Detailed statements** by selected Classes and Accounts
- Profit and loss-type statement
- Tagging of entries for selective reports
- Automatic repeat of entries standing orders etc. (Yearly, Half-Yearly, Quarterly, Monthly, Fortnightly, or Weekly)
- Automatic date-sorting of entries entries can be inserted anywhere in ledger
- Output reports to screen, printer or disc file
- Reference field for each entry Invoice or Cheque no.
- Split and merge ledgers at any time
  All functions available from main program screen Class and Account codes visible at all times
- Pop-up running-total calculator with one key press.

The most user-friendly, powerful and versatile accounts package yet - you won't be disappointed.

#### CASHMASTER INVOICING & STOCK CONTROL

Companion to Cashmaster or standalone program £39.95

- Full Customer Data file easy to find account records
- Full Stock Data file, Price Lists, Re-order lists
- Full invoicing with user-defined messages
- Full invoice editing, Invoice To & Deliver To fields
- Settlement, No-Return and Line discounts

A standalone, or integrates with Cashmaster for a fully featured accounts/invoicing package costing less than a quarter the price of its rivals.

SPECIAL OFFER - both programmes £69.95 Saving

#### THE GRAPHOLOGIST

Handwriting analysis program £49.95

'Uncannily accurate' 8000 Plus Magazine 'Recommended highly for the novice and the professional' Micromart

From the beginner to the expert, use The Graphologist to analyse your handwriting, your partners, friends, business associates, prospective employees.

With a sample of handwriting, answer the on-screen questions and follow the instructions. Anything from a signature analysis to a full 15 page complete character report, including career ambition and health through to sexual preferences and megalomania. Edit this report using your word processor for a professional presentation.

The Graphologist is a valuable business tool as well as entertaining and fun. Comes complete with comprehensive manual of graphology.

# LOCOPLUS

The section of the magazine exclusively for LocoScript users: your questions answered, our LocoFile tutorial and then it's Over to You!



As a recent owner and subscriber to your magazine, I should be very grateful for any help you can offer with what should be a simple problem.

Is there a simple way of setting the print head accurately down the page for 1" continuous labels? When printing a small number there is no real problem, but if one should want to print say 100 in one run, any error in setting will be magnified to an extent where it would be likely one address would be spread over 2 labels.

I would greatly appreciate any guidance you can give me in this matter - I'm getting confused!

#### **Answer:**

There is no easy way of positioning the print head exactly up and down a page. It is always difficult to know where the dot matrix head will actually print. However, this isn't a problem in the way you think it is. As long as the first label is OK, the rest will be, too. The amount of paper pulled through between labels stays the same, so if the first printed line is in a reasonable position relative to the top of the first label, the first line on all the other labels will be in that same relative position. As long as the paper type is set up properly in the first place, there will be no magnification effect. That is the secret, then - any discrepancy between

the paper size you have given the computer, and the actual size of the labels will be magnified as the print run goes on. That shouldn't happen, though, as long as the height of the label in the paper type is given as the right number of lines (inches x 6) between the top of one label and the top of the next. In 1" labels, it's 9 lines. When you position the labels in the printer, the bailbar should lie between the first two clear sprocket holes above that label. When printing a run of labels, the best way to proceed is to position the labels so they look about right, then print the file - but only choose to print the first page. If the alignment is correct, print the rest. If it isn't, straighten things up and try page two.

#### Question:

I have entered our collection of music tapes into LocoFile in record order.

I wish to obtain a printout in alphabetical order by main index (composer) and sub-index (title of item). When I try to print out with LocoMail - merging the data file into a master LocoMail document - it will only print out the records in the order in which I entered them. Can you tell me what should I be doing?

#### Answer:

You don't say why you're printing through LocoMail. It may be because you don't want to print all the information held on the cards. If so, LocoFile can still manage that: you can choose to print an extract, and then tick the items you want printed from each record. What the LocoFile index is set to, has no bearing on the way LocoMail takes the information: the whole thing has to be controlled from the LocoMail

master document. In your master you will have a set of instructions to which you will have to add the instruction \$=index name, where the index name is the name of the index you want it to run.

If you've used one of the example master documents to run your merge, you'll probably find that something similar is there, asking for the information by record number. You'll only need to change that.

You should look in the manual for any extra information you need.

#### **Question:**

I have been reading 8000 Plus since April this year and I have already discovered an awful lot more about Locoscript than I could ever have filtered from the manual. However, I am still having some problems.

When you go to create a document on a new disc the new file will always be called DOCUMENT.000 and the next one DOCUMENT. 001 etc. I have discovered that you can re-number these to whatever you like and the next consecutive number will always be chosen when you create a file, i.e. DOCUMENT.601, 602 etc. However, if I change the word document to anything else, ie INVOICE.nnn, the next file I create is still called DOCUMENT.nnn. Is there any way in which the system could be persuaded to come up with the word "invoice" so that a new file will always be INVOICE.nnn?

One further point is that I am having serious problems getting my

data files to merge successfully with master documents when trying to use LocoMail, I have read the manual, tried the examples and followed them to the letter, but when I have tried to set up my own data files and master documents I always get the message "Invalid Record Pattern". I don't think I am trying to do anything too complicated, I simply want a record containing Name, Company Name, Address, Telephone Number and Record Number.

The information I require in my letters is: Name, Company Name, Address and Record Number, this last item being used as a reference point. I haven't included any of the characters that the manual tells you not to use so why won't it work?

I appreciate that you will not be able to answer all the letters you receive, but I would be very grateful if you could put something in your LocoPlus section about LocoMail, or else recommend another reference book that could help me.

#### Answer:

If you don't give a name of your own to a file, the computer has to, or it can't store it on disc. It has to have a label to which it can refer when working.

If you don't name the file yourself, LocoScript gets round this by automatically calling the documents created DOCUMENT.000 and so on.

As you have discovered, the next file created will have the next consecutive number, and there is nothing to stop you deliberately numbering the first DOCUMENT.nnn with wherever you want the sequence to start.

However, what you're actually doing is exploiting a mechanism the computer has to have, and which is not meant for your use - so there's no way of changing it around. It has to be DOCUMENT.000, not INVOICE.000.

I'm afraid it's very difficult to know where you're going wrong with the merge as you didn't include any examples of what you've done.

You're certainly not trying to do



#### Surgery hours

The Loco Surgery is your chance to sort out any problems you have with using LocoScript - or any of its relatives: LocoSpell, LocoMail or LocoFile. The doctor in residence is Liz Bruce, and you can send details of your problems to her to Liz Bruce, LocoPlus, 8000 Plus, 30 Monmouth Street, BATH BA1 2BW. And don't forget to have a look at the Over to You! section on page 24 - you may pick up a few ideas from there, too!

#### LOCO PLUS



#### **Question:**

Having read the first question in the September issue, page 17, about using A4 fanfold, and after looking at your user index, I referred to 'A4isms' (issue 56, page 73) and tried to carry out the instructions. All went well until I got to "Write new settings to your startup disc". Does this mean 'copy to the start of day disc?' My start of day disc already has a file called SETTINGS.STD in group 0. Surely I cannot have two files with the same name!

#### Answer:

into group 1.

In order to get round

SETTINGS.STD file

this I put the new

I'd be surprised if that worked - and even if it did, it's not the most economical way of doing things. What LocoScript intends you to do is to say 'Yes' to its 'write to startup disc' suggestion - and it will then itself add the new information into the existing SETTINGS.STD file. The file will still be very small - probably 1k - but if you look under your [f6]=Settings option, you will find that the new information has been registered.

anything too complicated, and it should be fairly straightforward. As the error message concerns the record pattern, it may be you have not understood that you must define at the top of a data file the pattern in which that data appears.

A LocoMail data file, containing the information you want to use, would simply be a list of the relevant information, divided by 'separators' so the merge program knows where, for instance, the Company name stops and the address begins.

It knows what the separators are by the pattern at the top of the data file, eg: Name:Address;Telephone [RETURN] Record, at which point the 'end page here' sign also acts as a terminator, so the merge knows that the next piece of information belongs to the next record. You have to be careful in your selection of separators, so that the symbol used does not appear until the end of the piece of information you want treated as a unit. It's no good using a comma as separator for the end of the address, for instance, if you use a comma at the end of each line of the address.

It may be as simple as that: that you haven't set up the pattern at the top of your file, or you've been unwise in your choice of separators. On the other hand, it could be that the names you use to give the information in the pattern are not identical to the names you use in the LocoMail master to ask for the data.

If you refer to the 'Company name' as 'NAME' in your record pattern and 'CONAME' in the master, the merge won't work. They must match.

What I would suggest you do is to work with one of the example data files and one of the example masters given on your master disc. Use them as they stand first, and satisfy yourself it does work. Then, rather than trying to set up what you actually need from scratch, try altering these example files to fit your requirements, one step at a time, and check the merge at each step. If it goes wrong, you'll be able to pin point exactly at which alteration things are going wrong and probably then work out why they're going wrong!

.......

#### Question:

I am relatively new to the world of the PCW having only bought my 8512 a year ago, and I may only be making a simple error but I was wondering if you could help me. I have just set up two new templates, one for my letters and one for my short stories, but when I try to print out anything saved under these new templates the document is printed too far to the right of the page. I have done what the manual for LocoScript suggests: ie adjust the left offset. This doesn't happen in any of my other files. Please tell me what I am doing wrong.

#### **Answer:**

It could be one of several things, but if you can correct the problem by moving the paper over in the printer, I would simply do that for the moment.

But the root of the problem is most likely to be how you've set up the left hand margins in your templates, though, and have nothing to do with the offset.

Confusion is very often caused by

| M:FANII<br>Layout<br>fl≃Marqin | /DUCUMEN<br>1 F112<br>5 f3 | 1.000 Editing<br>LS1 CR+0<br>= Iabs f4=8 | layout.<br>LF6<br>Size f5=Stock | Frinter idle. Using M:<br>Decimal=. Zero=0 ScaleFitch10<br>f7=Name f8=Options CAN/EXII |
|--------------------------------|----------------------------|--|---------------------------------|--|
| —and a                         | 1.1                        | 1 : used for al                          |                                 |  |
| 2000000                        |                            | 1 : used for al                          |                                 | THE RESIDENCE OF THE   |
| -end o                         | f header                   | 2 : used for no                          | pages at all                    |  |
| -end o                         | f footer                   | 2 : used for no                          | o pages at all                  |  |

Notice that the scale is ten, although the character pitch is (Pi) is set to 12. This means that the left hand margin actually set to 12/10 of an inch. You can, of course, adjust it as you see fit, always bearing in mind the discrepancy between scale and character pitch

the question of just what you're setting the margin in. You're actually setting it in characters, but how that relates to inches on the page depends on the pitch you're setting them in. To confuse the issue further, you're not setting them in character pitch, but in scale pitch - so check the top of the screen when you're in your main stock layout.

The scale pitch is given over at the right of the middle of the three status lines and says it's 'scale pitch'. The character pitch, which is the setting for what your text will actually be printed in, is shown as 'Pi' over to the left. You may well find there's a disagreement.

If everything's working properly,

you should be able to put the paper in the printer with the left hand edge lined up with the 1 on the bail bar and the first character printed will be exactly where you've set it in your margin.

If you want a one inch margin, and your scale pitch is 12, the left hand margin should be set at 1.2. If the scale pitch is ten, it should be on the 1.

It's also possible that if you have been investigating the left offset option, you have now confused that. You really only need it if you're working in Direct printing. If you have altered it, and things are still going wrong, put it back to 0 and try to fix things through the stock layout in your template.

#### Question:

I was struck by your answer to a reader's enquiry regarding printing on both sides of continuous paper and and having odd pages on one side and even pages on the other of each sheet. For a person who wants a method with no frills or fancies, I think the following is an easier way.

Print all pages from 1 to the end as usual on one side of the paper. Make

sure you leave one extra blank page at the end. Remove the paper and turn it over. Put it back into the printer and print the whole document again, but this time make sure that the *first* page is left blank. When that has finished, detach the sheets, and arrange them into the correct order.]

#### Answer:

Yes, this works fine if you want two copies. The problem is many people

want to save paper nowadays, being aware of the damage to forests and other environmental problems that is involved. The extra ink is another issue.

.......

The print menu for Loco PC offers the option to print odd or print even pages, so that users of that program can print double sided documents easily - what we have to do is persuade Locomotive that the next release of the PCW version needs the same option.

#### Question:

I am writing to you as my last hope for a satisfactory answer to my problem. I have had a PCW 9512 for over 1 year now, and ever since I have had it, the margins that I am getting using LocoScript are 1.25 inches as opposed to the required inch stipulated in the manual. I am feeding the paper flush against the third rib of the paper tray. Other software seems to be giving me the correct margins.

The machine came with version 2.16 and 2.29 and the surprising thing is that BOTH versions are producing the 1.25 inches on the left margin. This letter is typed using version 2.16 and you can measure for yourself the margin size.

I have phoned the Amstrad User Group (who I have found to be in general quite useless); then Locomotive, who passed me to Amstrad, whose attitude was one of complete perplexity. They suggested that I change the margins from within the software so that it 'came out as 1 inch' which I am sure you will agree is not really satisfactory.

Can you please help me with this baffling problem.

#### Answer:

First, let's be completely pragmatic. Slide the paper about during a print run until the margin is exactly one inch, then mark the back plate of the printer. Nail

polish is what I usually recommend, and henceforth, load the left hand edge of the paper on the mark. No more problems.

I assume you're certain you've got it all set up correctly, as regards pitch and scale pitch, and that you haven't done anything weird to the left offset, which could certainly cause this if someone, some time, has put a value in there.

If you've checked all that, and it's definitely right, then it does sound as if the printer and the software are not agreeing on the relative position of the print head when it starts printing. If you hadn't said that other software was giving the correct margins, I would have suspected that the printer was simply slightly misaligned. However, as it does work correctly with other software, suspicion comes back to something lurking, somewhere, on your SOD disc.

If it's really irritating you, check ........... everything - but whether you find the answer or not, it's nothing to worry about. Accept the pragmatic solution.

#### Question:

Please can you help me with my Amstrad 8512 which I cannot get to print Landscape with its built in printer. I have tried all sorts of settings and even followed your "New paper type" article in issue 55.

#### Answer:

This keeps coming up. If by printing in Landscape you mean you want the file printed up and down the page rather than across it, as in MicroDesign, you can't.

All that happens if you use Landscape is that the printer accepts the longer side of the paper as the width and

the shorter side as the height. Nothing happens to the file when it's printed. If you want the actual document printed on longer lines, then you will have to change the margins.

In addition, you've probably noticed that your printer cannot accept more than 80 columns, - it simply isn't wide enough to accept A4 on its side, which is usually what people are trying to get it to do.

On the other hand, LocoScript still offers the option. This puzzles some people, but the reason is simple: if you want to use A5 in the Landscape orientation, you can. It also allows you to fit an external printer which has a wide enough carriage to accept A4 on its side. 9512 owners, of course, will be wondering what all the fuss is about they have always been able to print out using A4 in sideways orientation on their wide-carriage daisywheel printer.

#### Question:

I use a PCW9512. I was very interested recently to have the opportunity to examine a PCW 8512 and noticed that when editing a document on the 8512, it is possible to press the [f8] key and select an option from the resultant menu that magnifies your text to about an inch high which is incredibly useful as I have very poor eye sight.

Why isn't this option available for the 9512? Is this option built into LocoScript just for the 8512? or has another program been fed into LocoScript for the 8512 to allow for

this option? A reply would be greatly appreciated as this topic must be of interest to other readers.

#### Answer:

These 'Large Edit' characters seem to be causing a lot of interest at the moment. The answer to your question is that they are available for the 9512, but only if you have the correct version of LocoScript. You can get an upgrade to the latest version of LocoScript 2 -which will include this option - from Locomotive for about £15.

See the margin note on the next page for details on how to operate the option,

and what to expect from it. Don't forget that you'll get the 'Sticky Shift option as well - which can be just as useful.

.......

| rive A:<br>Ok used Ok  | free 0 file | Drive B:<br>s 144k used S62k            | READS LET                | ings f7=Disc change H8E<br>Options    |
|--|-------------|---|--------------------------|---------------------------------------|
|  |             | READSLET 2k<br>group 1 0k<br>group 2 0k | GROUP 5 OK<br>GROUP 6 OK | Show Limbo files<br>Show Hidden files |
| M:LABELS<br>0 limbo fi   |             | group 3 0k ELOPE 1 files                | HOLD 16k                 | Large edit character                  |
| 000000 18 LET<br>000000 19 LET<br>000000 20 LET<br>000000 23 LET<br>000000 23 LET<br>000000 26 LET<br>TEMPLATE STD |             | ATE.STD 2k                              | TEMPLATE.STD &           | ZK DUCUMENT 001 21<br>TEMPLATE STD 21 |

Large editing characters are available if you have a recent enough version of LocoScript

#### Question:

A reader (August, bottom of p22) using LocoScript v.2.28a reported problems with [PARA], [EOL] & [PAGE] use of these keys sending cursor into orbit "right of screen".

I use LocoScript with a CR setting of [+]0. My problem was with the [PARA] key it sent the cursor to the end of the document, scrolling merrily en route. As many of my documents are book chapters of three or four pages, this gave me much amusement.

I sometimes whip in one or more additional [RETURN]s between paragraphs to mark where insert or extra editing is required. The cursor stops after these, so I now set the CR to [+]half, and have no problems.

(Incidentally, I have been a PCW fanatic for the past 3 years, but have had much aggro of late - the printer broke down, and the replacement LC10 is a fierce and independent beast. I have to revert to Mr Biro for minor jobs! Yet another reason to hang on to the typewriter!)

#### **Answer:**

Unfortunately your (and my) definition of a paragraph does not always agree with LocoScript's definition. To complicate things further, Loco 1 and

Loco 2 don't agree, either.

Most typists separate paragraphs by pressing [RETURN] twice, and so leave a blank line between them. LocoScript agrees that these are then discreet paragraphs, and pressing the [PARA] key will take you straight to the beginning of the next one.

If you're in the habit of marking paragraphs by only using [RETURN] once and then indenting the beginning of the next paragraph, LocoScript will refuse to recognise it as a paragraph break - hence the inexorable scroll to the end of the document.

Yours is the best solution if you want to handle paragraphs like this, and is exactly why the Carriage Return option was put into LocoScript 2. Using this option, the line spacing in the text stays at whatever you have set, but when you press [RETURN], the extra line - or half line - appears. This makes paragraphs clearer on the printed page and gets round the endlessly scrolling cursor when you press [PARA].

I'm sorry you've been having printer aggro, but what have you done about it? If the integral printer really is dead, then it will mean sorting out a different printer. Other 9 pins don't fully support LocoScript and 24 pin or ink jets are getting to be rather expensive.

Once you consider your printer to be dead, you've got nothing to lose. So get

busy with a screwdriver and clean and check and tighten and replace if necessary. Check this list for what to do: Problem:

Paper sliding about, squint print lines. Solution:

These are usually caused by a simple build up of ink and muck on the platen and the roller. Try giving it a good clean - you'll be amazed at what comes off it. Problem:

White line or black line through print. Solution:

Sticking pin. The head can be dismantled, the pins removed, cleaned, lubricated and replaced. (One at a time, please, or you'll be sorry, they're different.) With the head out, you'll see little copper leaf spring like bits behind each pin. If they're worn, the pins may not go out and in properly, and you can actually bend them a bit to give more resistance. You can also replace the head, if the print is completely illegible. Invest in a can of the ubiquitous WD-40 and use plenty of it. It can have an amazing effect. The simplest resurrection trick of all is to take a piece of paper with vertical lines of WD-40 on it, and load the printer with it, then print something, without the ribbon. Loads of muck will be loosened by the wet stripes and deposited on the dry. For full details see the May 1991 issue of 8000 Plus where the above appears in full colour!

#### Question:

LOCO PLUS

I sometimes find that the way LocoScript 1 insists on putting the 'Addressee' message on screen when you create a document is unhelpful - is there any way round it?

#### Answer:

If it's only unhelpful on some occasions, that implies that on others it is helpful so you don't want to lose it altogether. The quickest way of dealing with it, then, is to create a document and then press [CUT][PAGE] [CUT] in quick succession - and the 'adressee' message will be neatly cut out of the document.

November 91 19



#### **Ouestion:**

The update booklet to LocoScript v2.28 supplied by Locomotive has a paragraph entitled 'Magnified text display'. Having carried out the instructions, I am unable to get documents to be displayed in double height and double width. Can you please give any advice?

#### Answer:

This is rather curious - perhaps you are expecting too much. At the disc management screen of LocoScript 2.28 (or higher), press [f8] and cursor down to 'Large edit characters'. Now press the [+] key (the one in a square) to produce a tick next to the option. Edit or create a file - you will see that the characters are twice their normal size. However, this only affects the editing option, and only the characters in the main part of the screen. The Disc Manager and the print out are unaffected. Also notice that you will have to add that tick to activate the option each time you use LocoScript.

#### Question:

The LocoScript handbook suggests that the direct printing mode should be used for filling in pre-printed forms and I have occasionally seen the same suggestion in 8000 Plus. In its instructions, the handbook advises:

"To get the right position down the page, turn the Paper Feed Knob on the side of the printer until the line of the paper you want to print on is lined up with the print head."

This sounds very simple, but how,

in practice, is it done? On an ordinary typewriter the print line is clearly indicated but on the PCW 8256/8512 printer there is no guideline. Certainly, I have never succeeded in achieving a very accurate location Your advice or that of other readers will be appreciated.

#### **Answer:**

Neither have I. I gave up and use a Tempmate instead. This is an acrylic sheet with a backing paper, and lines and characters marked on the acrylic. You put the form under the acrylic and read off where to put the responses, then type them on a blank screen using [RETURN]s and spaces with a fixed pitch. It works OK as long as you do a bit of experimenting and agree with the Tempmate where the first line of type will be for a given paper position, for example, to have the top level with the top of the bail bar.

Direct printing is much easier with a PCW9512, as you are able to position the print head exactly, and work from there.

#### Question:

Whilst I am far from being an expert on discs, I do have a limited knowledge of how a disc drive works, and I thought that after reading your answer to a disc failure problem (August issue), some readers may be interested in how I coped with a disc failure problem.

I would not recommend it for a standard procedure, only for use in an emergency - when you have a back-up of the failed file, but still need that disc space for something else.

At first I thought I could get round it by simply erasing the faulty file, and then copying the back-up file onto the disc. I was able to do this, but later on I found that the fault had been transferred to another file.

Fortunately I found that using PIP to copy individual files worked as normal, and that after transferring all the other files to a new disc and adding the backup copy of the failed file, order was restored. After all that I decided it was time to consign the old disc to the waste bin.

You have suggested re-formatting the disc, but if you need to use or back up some of the files that is obviously out of the question, and in any case it might not prevent another failure. I am assuming that your back-up copy of the file needs to be edited before you save another back-up (since you would otherwise not be referring to the working copy in the first place!) and that you want to do this at once. Hence my suggestion is only for the 'rescue operation', and I would suggest trying PIP to copy files to the M: drive to make sure that this works before wasting time on the edit operation.

If it does work, and CP/M has told you which file the problem is in, it seems to me that all you have to do is to make sure you don't use that section of the disc.

But since the PCW decides for itself where to put each file, the only way you can do this is to leave the faulty file on the disc, but rename this file, for example as "GARBAGE.000." Assuming there is still enough disc space, you can then PIP the backup copy of the failed file onto this disc and continue using the disc, until you can

buy another new disc. This may not work if the failure is something more general than the message suggests, but it is worth trying. Make a note of all the files that you have already edited that day and which need to be backed up and don't try editing any others unless this is absolutely essential. You might like to PIP all the amended files onto your backup disc before you switch off. The only trouble with this is that with a simple PIP command they will all be put into group 0.

To simplify the rest of my suggestions, I will assume that you are using two drives and that your data files are on a drive B: disc. I am also assuming that you make back-ups simply by copying the disc at the end of the day. If you do something different, you will have to amend the details to suit your 'modus operandi'.

Buy two new discs as soon as possible and format these either with DISCKIT or LocoScript 2. One should be double density format and will obviously become your new working disc. The other should be temporarily formatted for drive A:. Copy your backup disc onto the working disc.

Remove both discs and boot up CP/M. Insert the failed disc and erase all the files from it except for "GARBAGE.000" and the ones you need to transfer. That is, erase the ones that are now safely stored on the new disc. The easiest way to do this is to type "ERA B: \*. \*[c]" and press [ENTER], then press 'Y' each time a file you don't want is displayed, and 'N' for the ones you do want kept. Don't forget to press 'N' for the "GARBAGE.000" file. This is just to ensure that CP/M doesn't move a good file to the faulty section of the disc. When the A> returns, type "PIP M:=A:PIP.COM" and press [ENTER], followed by "M:" and [ENTER] so that you can still use PIP with the CP/M Start of Day Disc removed. The prompt will now show M>. Replace the Start of Day Disc with the blank drive A: disc and type "PIP A:=B:\*.\*" and [RETURN]. You will be asked to confirm this choice (press 'Y'), then wait for the M> prompt to return to signify that you instructions have been carried out. If you feel comfortable with CP/M and have only a few files to

save, you can of course PIP these by name instead of erasing the rest. Having copied them - by whichever method - you can breathe a sigh of relief, toss the failed disc into the bin, and get back to the comfort and safety of LocoScript.

With your new working disc in drive B:, replace the LocoScript Start of Day disc with the new drive A: disc, and press [f7] (LocoScript 2) or [f1] (LocoScript 1). You should find all the amended files in the first group on the disc. From the working disc, erase all the files that are on the A: drive disc. This step is not essential if you use LocoScript, since it asks if you want to replace an existing file with a new copy. All you have to do now is to use the LocoScript 'copyfile' option to move these files into whichever group on the B: drive disc you want them in. If there are several and if you have to erase the old files, it might be a good idea to show the Limbo files to remind you where to put the new ones. Finally don't forget to copy this disc again onto your backup copy disc.

If you turn grey at the thought of using CP/M for anything except DISCKIT, then you could try erasing "GARBAGE.000" from the failed disc and attempting to copy this old disc onto the new disc. I would not recommend it, however. Even if the copy works, in certain cases it might possibly result in your having exactly the same problem with the new disc. So although it is slightly less convenient, I feel that PIP is a better option in this case.

#### **Answer:**

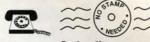
All of which bears out what I have always said: Don't get yourself into this situation in the first place. You should be muttering it in your sleep by this time: 'I will back up my discs... I will...'

Having got yourself into this mess, then absolutely anything is worth trying, and this solution seems as good as any at this level. A 'Disc Doctor' is also a good idea. Try Dave on 089 283 5974. You'll be helping charity into the bargain.

You might also like to turn to our 'Over to You' page for another tip on how to deal with this extremely frustrating subject.



POST TO: VISA Cheque/PO/Access or Visa **AXXON COMPUTER SUPPLIES,** (8000+) FREEPOST, P.O. Box 279A, 081 - 335 - 3180 Surbiton, Surrey KT5 9BR



Mon/Fri 9.30 - 5.30

## SECRET IS SERVICE"

| SAME DAY  | DESPAT                       | CH (SUBJE                               | ECT TO                   | AVAILABILITY)  | ORDER BE                                  | ORE 3pm                    |                | -  |
|---|------------------------------|---|--------------------------|--|---|----------------------------|----------------|--|
| ALL PRICES SHOWN LEISURE SOFTWA   |                              | LUDE V                                  | AT. FF                   | DISKS FREE   | LATE AND THE PARTY OF THE WALL            |                            |                | The state of the s |
| Brian Clough Football Fortunes£15.50<br>Bridge Player Galactica with  | Pete Gerrand                 | 's Handy Diary                          | £19.50                   | Amsoft CF2   | 5 off                                     | 10 off                     |                | 20 off   |
| State   | Scape Ghost<br>Scrabble (De  | uxe)                                    | £15.50<br>£15.50         | Maxell CF2<br>Maxell CF2-D<br>Maxell CF2                       | £8.99                                     | £15.99                     |                | .£31.50  |
| Classic Collection Vol 2£13.95<br>Classic Games 4 (special edition) .£18.95                                   | Steve Davis S<br>Tank Attack | nooker                                  | £16.95                   | (individually cased)<br>3" Individual Plastic                  | £10.99<br>Case <b>£2.50</b> (5), <b>£</b> | 218.99<br>4.95 (10) £9.4   | 15 (20), £2    | £37.00<br>2.00 (50)  |
| Classic Invaders         £13.50           Clock Chess '89         £15.95           Giantkiller         £14.95 | Tetris<br>The Complete       | Home Entertain                          | £15.50<br>ment           | Amstrad 3" Storage<br>3½" Bulk Disks DSDD                      | Box (10 cap)<br>)£4.50                    | £7.95                      | /              | £5.95<br>£14.95  |
| Gnome Ranger £15.50  Grand Slam £14.95  Head Coach V.3. £16.95  | Time & Magik                 | du lo                                   | £13.50                   | RIBBONS  | very high Gu                              | ali MS/F                   | AD com         | patible  |
| Ingrid's Back (sequel to Gnome Ranger)£15.50  | World of Soco                |   | £15.95<br>£16.95         | PCW 9512 Carbon I<br>PCW 9512 Black Fa                         | bric Ribbon                               | £3.30                      | £3.10          | £2.70  |
| Animal/Vegetable/Mineral  |                              |   | £14.50                   | PCW 8256/8512 Ca<br>PCW 8256/8512 Bla                          | rbon Multistrike<br>ack Fabric Ribbor     | £3.30<br>1 £3.20           | £3.15<br>£3.00 | £3.00  |
| Cross Grid (Cross word without clues)<br>French Mistress (KOSMOS, 12 to adult)<br>Fun School 3 (Under 5's)    |                              |   | £16.95                   | (long life 14m<br>Amstrad DMP 2000<br>Citizen 120D             |   | 1.5 00                     |                | 12.00  |
| Fun School 3 (5 to 7 yrs)   |                              |   | £16.95<br>£16.95         | NEC P2200/P2+  |   |                            |                |  |
| Italian Tutor (KOSMOS, 12 to adult)<br>Junior Playtime<br>Micro English (LCL, 8- GCSE)                        |                              |   | £9.95<br>£19.95          | ORIGINA  |   | 1 off                      | 5 off          | 10 off   |
| Micro Maths (LCL, 11-GCSE)<br>School's Out<br>Spanish Tutor (KOSMOS, 12 to adult)                             |                              |   | £10.95<br>£16.95         | PCW 8256/8512 Car<br>PCW 8256/8512 Black<br>PCW 9512 Carbon Mc | Fabric Ribbon                             | £6.95                      | £6.50          | £6.00  |
| Ultimate Sums<br>Ultimate Quiz<br>World Wise  |                              |   | £9.95<br>£9.95<br>£14.95 | Re-ink A fut   | bons except with<br>ture friendly proc    | other items or             | dered)         |  |
| HARDWARE  |                              | DUST                                    |                          | AINTERNATION A   | SOFT                                      | -                          |                |  |
| SCA RAMPACS<br>512K   |                              | 3 piece anti-s                          | static, was              | hable, waterproof,   | O   | for Locofile)              |                | £49.95   |
| 768K  | 120.00                       | PCW 9512 3                              | pcs)                     | £8.55<br>£8.95   | Desktop + AM                              | Tutor (lansyst) .  X Mouse |                | £39.95<br>£65.95   |
| SCA P/S INTERFACE   |                              | PCW 9512 wi<br>(3 pcs)                  |                          | eeder<br>£11.59  | Foreword                                  | 00                         |                | £39.50   |
| Professional Plus   |                              | NEW!!!<br>Kadør Seal 'n<br>Keyboard Pro | Type                     | £13.5  | Master Pack (s<br>Master Scan             | scan & paint)              |                | £62.50<br>£55.50   |

# Pro SCAN Handscanner Pro 8256 Serial/Parallel Interfaces with 256K Memory fitted .....£87,95 with 512K Memory fitted .....£110.95 with 768K Memory fitted .....£134.95 MOUSE NEW!! Keymouse (From Creative

| HARD DI | SKORIV  | ES |
|---------|---------|----|
|         | 1000000 |    |

| 20 Megabyte Hard Disk Drive |         |
|-----------------------------|---------|
| with Interface              | £351.00 |
| 30 Megabyte Hard Disk Drive |         |
| with Interface              | £423.00 |
| 40 Megabyte Hard Disk Drive |         |
| with Interface              | £493.50 |
| 60 Megabyte Hard Disk Drive | 0000 75 |
| with Interface              | £622.75 |

£179 Keyboard Protector for PCW 8256/8512/9512

## FLOKS

| 8000 Plus Collection                | £9.95  |
|-------------------------------------|--------|
| All In One Mini Office Professional | £11.95 |
| CP/M Plus Handbook                  | £20.00 |
| Desktop Publishing Amstrad PCW      | £12.95 |
| Illustrated Locoscript              | £10.95 |
| Locomail User Guide                 |        |
| Locoscript II User Guide            | £19.95 |
| Locoscript II + Mail, File, Spell   | £10.95 |
| Mallard BASIC Intro & Ref           | £9.95  |
| Mastering Amstrad PCW 8256/8512     | £9.95  |
| PCW Machine Code                    | £13.95 |
| PCW Super Code                      |        |
| Picture Processing Amstrad PCW      |        |
| Protext PCW User Guide              | £10.95 |
| Using the Amstrad PCW 9512          | £10.95 |
| Using Amstrad Word Processor        | £9.95  |
|                                     |        |

#### MEDIA STORAGE DC-40L (up to 30 x 3" disks) ......£7.95 DC-80L (up to 60 x 3" disks) .....£9.95

AMSCASE (10 capacity, 3" disks) .....£5.95 3" Storage Box (5 capacity) ......£2.50

Prices are for MAIL ORDER ONLY Minimum order £5.00

No export orders

All trade marks acknowledged

| Control of the Contro |          |
|--|----------|
| 3" Thesaurus (for Locofile)  | £14.50   |
| Cracker II Turbo Plus  | £49.95   |
| Crash Course Tutor (lansyst)   | £18.95   |
| DBase II   | £39.95   |
| Desktop + AMX Mouse  | £65.95   |
| Flipper 3  |          |
| Foreword   |          |
| Master File 8000   | £34.95   |
| Master Pack (scan & paint)   | £62.50   |
| Master Scan  | £55.50   |
| Micro Design II  | F45 95   |
| Mini Office Professional   | £26.95   |
| Money Manager  | £47.95   |
| Pro Ease   | £18.95   |
| Protext  | £39.95   |
| Sage Invoicing   | £52.95   |
| Sage Payroll   | £52.95   |
| Sage Popular Accounts  | t-/-2 dh |
| Sage Popular Accounts Plus   | £104.95  |
| Sage Popular Retrieve  | £52.95   |
| Super Calc II<br>Super Dos<br>Touch 'n' Go   | £39.50   |
| Super Dos  | £29.95   |
| Touch 'n' Go   | £18.95   |
| Two Finger Conversion (lansyst)  | £18.95   |
|  |          |

#### BITS & BOBS

| and the last of th |        |
|--|--------|
| 3" Head Cleaning Kit   | ve     |
| Cleaning Fluid, Screen wipes, general purpo  |        |
| wipe, packed in a free library case)   | £10.95 |
| 3" Storage box (5 capc)  | £2.50  |
| 3" Individual plastic caseOnly 5   |        |
| 3½" Head Cleaning Kit  |        |
| 9512 Daisy Wheels  | £5.95  |
| Printer Cable D25-CEN 36 (9 Series)  | £9.95  |
| Printer Cable CEN 36 - CEN 36 (8 Series)   | £11.95 |
| Margin Maker MM3i (8256/8512)  | £14.50 |
| Tracey   | £7.95  |
| Mouse Pad, 6mm, anti-static fabric surface.  | £4.95  |
| Anti-Static Glare Filter (12", 8 & 9 series)   | £22.95 |
| Screen Cleaning Wipes (10 packets)   | £3.95  |
| Universal Printer Stand (2 pcs)  | £6.95  |
| Mouse House (storage pocket)   | £2.99  |



# Paper Chase

Karen Donaghay shows you how cut corners when printing out your data files - without destroying a forest while doing so!

#### Address sense

If you want to do a big mailshot from LocoFile, the printing principles covered in this tutorial can be used to print out sticky address labels. It is a topic that is also covered pretty well in the LocoFile manual - just in case you get stuck.

omputers are often slammed as paper-wasters. With printouts piled up on countless desktops, they have probably caused the demise of many a pine forest.

But sadly, it is often unavoidable. However much we value our ecological principles, many programs just don't work in an efficient way.

One of the worse culprits for the PCW is, (surprise, surprise) LocoFile. A normal LocoFile printout will often leave huge expanses of blank paper in between each record.

And searching through the masses of paper is hopelessly time-consuming, as well as being a waste of the world's limited resources.

So, what can you do to cut down? Well in LocoFile there are a number of techniques that can help you to use paper more frugally. The problem stems from the 'one record - one page' philosophy.

In other words, the program prints one record on one complete page, regardless of how big or small that record is. If you have a hundred records, that means printing out a hundred pages - a lot of paper by anyone's standards.

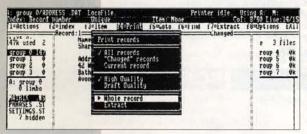
Looking at different ways of printing in LocoFile is fraught with confusion and one way to avoid the problem completely is to use LocoMail.

When you merge your data with a LocoMail document, you can do a printout in just about any form that you choose. But LocoMail has its own drawbacks. First of all, it is a hard program to master. It could take you some time to write the printing program that you need. Secondly, it is not worth buying LocoMail for this facility alone.

The good news is that there is another way. We are going to show you how to set up your PCW printer so that it can do exactly what you tell it to do.

We have chosen three scenarios. One is the standard printout, one record per page. The next example shows you how to use smaller paper and how to set up a standard paper type, that can be used over and over again. The third example is probably the most useful and shows you how to print out data in a list.

#### THE EASY WAY - ONE RECORD A PAGE



Printing out the entire database is an option on the LocoFile Menu.

| ١ | Name               | Surname |
|---|--------------------|---------|
|   | Sharlene           | Aaron   |
|   | Address            |         |
|   | 42 Walling Street, |         |
|   | Bath,              |         |
| ı | Avon.              |         |

The standard printing method only uses the top left hand corner of the paper, and so wastes a large amount of paper

To keep matters simple we will use, by way of example, the most common type of database - an address file. You can either copy in our suggested version or, if you prefer, you can try out the following techniques on an address file which you use regularly.

First, let's take a look at the easy option - printing out one record per page. This is a piece of cake, since all it involves is a few key presses and plenty of paper for the print out.

To begin with, you need to load your datafile in the usual way and choose the correct index. Remember that, whatever order the records are stored in, this is the order in which they will print out. We chose to index the fields in Surname order, so the first record to be printed would be the address of Mrs Aaron.

Once they are in the correct order you can choose the printing menu by pressing [f4]. This is shown in our screenshot and allows you to choose what you want to print out. You can print out every address that you have by selecting the first option, 'All records'.

If you only want to print the record on the screen, you should choose to print Current record. The other option is to print only 'Changed' records. This can be useful, as it will print out all the addresses that are new or altered since you last called up the database. (If you keep a printed copy of your database, then you should choose this option at the end of every work session.)

You can print out the whole record or just sections of it. But more on that later. Why not try these options for yourself? If you are starting a file from scratch, print out the entire file.

Or, if you are using an existing file with lots of records, we suggest adding some bogus records to the beginning of your database. Then choose to print out just these new records (choose 'Print changed records').

#### THE SIZE FACTOR - USING SMALLER PAPER



LocoScript asks directly for all the things it needs to know when you set up a new paper type. All you have to do is fill in the values! One logical solution is to use smaller pages. This method is ideal for those who want to produce a back-up of their entire database on traditional index cards. You simply need to measure the size of the card and enter the appropriate dimensions as a paper template.

To do this, you need to define a new paper type in LocoScript. Go to the Disc Management Screen in LocoScript 2 and press [f6] for Settings. You will see a number of paper types on the menu shown in our screenshot but none are

suitable. So, you have to choose the option 'New Paper Type' from the menu.

This gives you a list of the current settings and also lets you overwrite these to define your own paper settings.

For the index card we set the values as shown. To save this new type of paper, scroll down to 'Create new paper type'. The specific dimensions of the Card can be added to a standard list of paper types. To have this automatically saved on to your LocoFile disc choose the option to 'Write SETTINGS.STD'.

Now you can make this the type of paper used by the datafile itself. Load up the database by pressing [f1] and choosing to 'Run LocoFile' as normal.

Then press [f1] and choose 'Database set-up'. This allows you to set the default options for the datafile you are working with. Once the setup screen has appeared you can press [f5] for Card and pick the option to 'Select paper'.

'Index card' will be one of the list of paper types and you need to tick this. Then select the line that says 'Use paper type' and press [ENTER]. This saves 'Card' as the type of paper used with the datafile. Now, whenever you try to print, the program will assume that you want to print on to card of this size.

If you go back to the main datafile by pressing [EXIT] and then try to print out a record, a dialogue box will appear. It asks whether you want to use the intended paper or the current paper. You should choose the option to use the 'intended paper'.

Having chosen the intended paper for the database, you will see it printed out on to cards in the normal way.



The paper type that you have set up can now become LocoFile's default option, so that you can use it every time you print out

#### **ALTOGETHER NOW - PRINTING IN A LIST**

Another solution is to cheat. It is possible to tell LocoFile that you are using small paper when you are, in reality, using large paper. This means that several records can be printed together, all on one page.

Ultimately, of course, you can have the paper type set to any length you wish. For instance, if you wanted to print out all of the names in a long list, you could have a 'bogus' page length of two.

This means that two lines of each record would be printed, and then the next record, and so on.

This time we are going to use the onthe-spot method. If you do not wish to repeat a certain printing format, there is no point in setting up standard paper types in LocoScript and Intended paper types in LocoFile. Instead there is an easier 'one-off' method.

Simply press the [PTR] key. Choose to 'Show Paper Type' and press [ENTER]. Then you simply change the detail to whatever you want.

We called our new paper type **Short**. We made it two lines long with a gap of one line. The easiest way to print out lists is to use continuous stationary and this means that the option to 'Ignore Paper Sensor' is not switched on.

Finally, press [ENTER], choose the option to 'Use Paper Type' and press [ENTER] again. The [EXIT] key will return you to LocoFile and you can now do your printing.

In this case we do not want to print out the whole record; just a list of the names. So when you choose [f4] to get the print menu, this time you should select the 'Extract' option.

You will be given a list of all the different fields. All you have to do is move down the list, selecting those you want to print by pressing the [+] key.

Then you simply move the cursor to the line that says 'Print' and press [ENTER]. A message will appear, saying that the current paper is different to the intended paper.

In this case you choose the option to print using the 'Current printer and paper'. The result is a list of all the names on your datafile.



A'short page' is set up for use instantly Any part of the database can be printed out in a long list

Charlotte Aaron
Stephen Argos
Margaret Anderson
Paul Anderson

#### Mail shot

If you do decide to buy LocoMail, then vou have a whole set of options open to you. Rather than using trickery to get the kind of printout that you need, LocoMail is specially designed for this kind of task. It can take data from LocoFile and print it out in perfectly laid out pages. LocoMail costs £29.95 plus VAT from Locomotive Software. (0306) 740606.

#### OF PRINTERS AND PAPER

The reason that this entire topic is so fraught with confusion is the way that LocoScript and LocoFile are set up. Basically there are several standard types of paper that they both recognise, such as A4 and 11 inch continuous paper. The layouts for these standard paper-types are supplied with the package.

If you want LocoScript or LocoFile to recognise any other sort of paper, you have to define it yourself.

This can be done in one of two ways. It can either be defined and saved on to disc as another standard paper type (as in the second example) or it can be defined and used on the spot, (as in the first example) and then discarded.

To make matters even more confusing, you can actually associate one standard type of paper with one particular database. This is what is known as the 'Intended paper type'.

There is also the Current paper type which is the type of paper the printer is set up to use at any given moment. The trick is to know which one you are using at any given time.

Although it may sound confusing, this is one case where practice makes perfect.

But what about the paper itself? How do you know which layout options to choose? For instance how long is a piece of paper? One rule to remember is that LocoScript and LocoFile work in lines, not inches. If you are using the standard size of text (pitch 6) then you can easily work out how many lines there are per page. Take our index cards as an example. They measured six inches in height. Multiply the height in inches by six and you end up with the number of lines - in this case 36.

Another tricky point to remember, when you are using continuous stationery, is to avoid printing on the perforations. If you are using 11 inch continuous stationery and you tell LocoFile that the paper is actually only two lines high, you will get exactly 33 entries on one 11 inch page.

Or if you defined the 'bogus' page as being 22 lines long, you would fit three entries on to each 11 inch page. And so on. The moral of this story is make sure that your page can divide evenly into sections, whether they be sections of 22 lines, 33 lines or even two lines.

Finally, if you want to use single sheet stationery to print out more than one record per page, things get even more complex. This is where we need to make use of the paper sensor.

Basically, a paper sensor is there to tell you when the paper is finished. It is usually used with continuous paper, so that you know when to reload.

However, there are special cases and the thinking goes as follows. If you are printing several records in a list on one sheet of paper, you have already defined the page as continuous. This means that the printing does not stop after each 'two line' page. However this also means that the printer will carry on printing, even when the sheet of paper is finished.

The way to avoid this is to make sure that there is no tick beside the option to 'Ignore Paper Sensor'. In other words the paper sensor is switched on and will prevent you from running out of paper at the end of a page.



# Over to You!

Your chance to not just amaze your friends with your LocoScripting prowess – but to help them too! More tips from our readers' PCWs

#### **DIR Straights**

Re: your margin query on page 18 of issue 60. Pressing [ALT]+P (it beeps) before TYPEing a file or using DIR in its many forms will make all screen output echo to printer. Pressing [ALT]+[P] again (it doesn't beep this time!) reverts to normal.

As an alternative to using [ALT]+P load the printer with paper and simply press [f7] (it beeps) to go into print mode. Type in DIR[user= all] to show all files on disc for printout from CP/M. Press [f7] agin (it doesn't beep) to reset to normal. Bob Kelly, Warminster

#### Over to YOU!

Don't forget that we want to hear from you if you have any LocoScript tips. Send them in to us at:
Over to You, 8000
Plus, 30 Monmouth
St., BATH BA1 2BW.

#### **Templates in reverse**

The LocoScript 2 template facility is very useful; however, it is not always possible to have all the layouts you want in the same template file. One way round this is to put the relevant layout codes into a Phrases file, and to paste the layout you require into the document. In one Phrases file you can have over 20 layout codes, enough for normal and indented layouts, each at pitches 10, 12, 15 and 17, with each pitch at both line spacing 1 and 2, as well as several special layouts like section headings, paragraph numbers, and so on. With such a Phrases file, all your layouts are instantly available.

Another tip deals with LocoScript's lack of a WYSIWYG (What You See Is What You Get) facility to show on screen how text in special styles will be printed (other than underlining). However, text with special styling can be made to stand out by the use of the 'reverse' option. Reverse swaps the foreground and background colours, but as the PCW's own printer can't print reverse characters, there should be no effect when you print the document. However, I can make no claims about other printers.

Paul T. Seaman Renfrewshire

#### **Dating made easy**

I have found that the following template arrangement for letters saves a bit of bother, particularly on January 1st and onwards when one can easily type in the old year instead of the new one.

Create a new empty document called TEMPLATE.STD and use [f2] 'Change layout' to insert a left tab six spaces in from the right hand margin. Exit from 'Change layout' and then type in your address and telephone number in the way you prefer. Press [RETURN] to leave one blank line, and then type the following codes: [+]LS0 (that's LS zero) and [+]RA, followed by '1991.' (don't forget the full stop after 1991) and then [RETURN] again. Then type code [+]LS1 and press the [TAB] key: do not press [RETURN] this time, just finally press [EXIT] and select 'Finish edit' to save this as a new TEMPLATE.STD for your letters group. When the next January 1st comes round, you must of

course substitute 1992 for 1991.

When you create a new document in this group, press the [PAGE] key and the cursor will jump immediately to the left of '1991.' Type 'November 20th' or whatever the date is, followed by [RETURN]. Although the 'November 20th' text will appear on screen one line below '1991', it will be printed out correctly on the same line as the year. In addition, the cursor will now be in the right place for you to begin typing.

Patrick Leggatt
Farnham

#### Finding him/her

On your letters page in the May issue, Philip Shapiro describes how he saves his address etc. as blocks to be pasted into letters as and when required. I find it easier to create a TEMPLATE.STD which puts the address into the header, using it to set up the 'first page only' option, the date, any references, and the beginning of the letter itself – 'Dear Sir' or whatever. I use capitals and reverse video for the date to remind me to insert the correct date – which can be a block or a phrase.

I use several templates like this, some with footers in the style 'Page x of y' which automatically number the pages for me. A TEMPLATE.STD that is completely blank is useful for non-headed notes since without it LocoScript will look for the nearest one.

Finally, a quick tip: when using [FIND] and [EXCHANGE] include a space either side of the word you are altering, otherwise all the exchanges may not necessarily be what you expect. For instance, I was changing all the references to 'his' in our Operatic Society's constitution to 'his/her', but failed to include the surrounding spaces in the search string, resulting in such gems as 'his/hertory' and 'this/her'. If I had replaced '[SPACE]his[SPACE]' with '[SPACE]his/her[SPACE]' throughout the document, everything would have been well!

Michael Harris Cheadle

#### Start of Day blues

As a newcomer to both the the PCW and your magazine I have never written a letter to you before, but was tempted to

do so by the letter from the person with the disc error problem. I have experienced a similar problem twice in about three months, and, though my solution may be based on ignorance, it has worked in both cases for me. Simply take another Start of Day disc, and start LocoScript using that disc. Take this disc out, replace it with the faulty disc and then signal a disc change using the [f1] (or [f7]) key. By bypassing the Start of Day stage on the faulty disc, you may then be able to transfer any information you need from the faulty disc to a new one using drive M: and the [f3] key. Collin Field Gravesend

#### **Double dictionaries**

Regarding the merging of user dictionaries in LocoSpell: during some disc housekeeping the other day I decided that I wanted to merge two user dictionaries, or USERSPEL.DCT's as they are called. The manual does not explain how to do this, so here is my solution. You must be using LocoScript 2.28 or a later version for this to work.

Create a document in the group which contains the USERSPEL.DCT which you wish to add to. Press [f1] and select 'Insert text'. Then move the cursor to the USERSPEL.DCT which is to be added and select it. It will flow into the document. Then press [f7] and select 'Automatic addition'. All the different words in the dictionary to be added will be inserted into the original. Press Exit and 'Abandon edit'. Lo and behold, merged dictionaries!

David Maxwell-Lyte Powys

#### **Quick Keys**

In addition to the keys mentioned in June's 8000 Plus – did you know that you can move quickly round any menu in LocoScript using keystrokes? For instance, the [f1] menu from the Disc Manager can be used as follows: M takes you to 'Make ASCII file', S to 'Show phrases', L to 'Load phrases', SV to 'Save phrases' and SB to 'Show blocks'. Other menus follow the same sort of format. It sometimes seems a bit reluctant to perform, though.

Eric Shoddert, Wiltshire

# OUIBBLE

IF ANY ITEM PROVES **FAULTY WITHIN 12** MONTHS OF PURCHASE WE WILL REPLACE IT OR REFUND YOUR MONEY IN FULL.

#### **TEQNICHE PCW 102 KEYBOARD**

FULL IBM AT STYLE KEYBOARD, 102 KEYS INCLUDING SPECIAL LOCOSCRIPT FUNCTION KEYS, SEPARATE NUMERIC KEYPAD, SEPARATE CURSOR KEYPAD, PLUGS STRAIGHT INTO ANY PCW, NO SPECIAL SOFTWARE OR HARDWARE MODIFICATIONS NEEDED.

ASSEMBLED IN THE U.K. **FULLY GUARANTEED FOR** 

#### **AMSTRAD PCW 9 SERIES PRINT WHEELS**

## CHOOSE FROM THESE NINE DIFFERENT PRINT WHEELS

· LETTERGOTHIC 10/12 · MINI GOTHIC 15 · ORATOR 10 • PRESTIGE ELITE 12 PRESTIGE PICA 10 RECTA 10 · SCRIPT 12 THESIS PS COURIER 10 £ 3.45

FOREIGN PRINTWHEELS AVAILABLE AT £12.97

PLEASE PHONE FOR DETAILS

STORAGE BOX IS NO

LONGER AVAILABLE.

IEW NEW

CHOICE OF TWO NEW

DESIGNED TO HOLD 3.5" DISKS

THEY ARE IDEAL FOR 3" DISKS

30 x 3" DISKS ONLY

60 x 3" DISKS ONLY £

WE NOW OFFER A

BOXES, ORIGINALLY

DF40L

DF80L

HOLDS UP TO

HOLDS UP TO

#### **DUST COVERS**

HIGHEST QUALITY 3 PIECE PCW DUST COVERS PCW 8 SERIES

£ 7.93 **PCW 9 SERIES** £ 7.93 PCW 9 SERIES
SHEET FEEDER VERSION ....... 8.93

#### LISTING PAPER

11" x 91/2" 60gsm 1000 SHEETS 2000 SHEETS

٤7.93 £ 14.98

€ 12.98

TRUE A4 85gsm 1000 SHEETS

(PLEASE ADD \$4.00 TOWARDS DELIVERY ON ORDERS FOR PAPER UNLESS YOU ORDER WITH OTHER ITEMS, THEN DELIVERY IS \$1.50

#### **会 TDK DISKS**

BEST QUALITY DISKS IN THE WORLD FOR 3.5" AND 5.25" DRIVES.

TDK 5.25" DS. TDK 5.25" HD £ 9.68 **TDK 3.5" DS** £ 8,46

TDK 3.5" HD. £15.98 All prices are per box of ten disks.

AMSCASE

LOCKABLE HINGED LID &

DIVIDERS

ONLY £ 2.91

#### Don't risk losing your valuable data

Genuine Amsoft

 Guaranteed Quality and Reliability

 Buy from the UK's LARGEST SUPPLIER

PACK OF FIVE

PACK OF 2 3,98 TEN

AMAZING VALUE!!!

COMPACT FLOPPY DISC **BULK BUYERS SPECIAL PRICES!** 

50 E74.61 100 £139.83

#### PCW PRINTER RIBBONS

SPECIAL OFFER - BUY 10 GET 1 FREE!

**GENUINE AMSTRAD** QUALITY COMPATIBLES

|      | FABRIC | CARBON<br>MULTI-STRIKE |      | FABRIC | CARBON<br>MULTI-STRIKE |
|------|--------|------------------------|------|--------|------------------------|
| PCW8 | £4.57  | €4.57                  | PCW8 | £2.91  | €2.91                  |
| PCW9 | -      | £2.91                  | PCW9 | £2.29  | €2.29                  |

CLEARHEAD FOR 3° DRIVES 3.5" & 5.25" DRIVE KITS EA ... £ 3.97

SCREEN AND
KEYBOARD
KIT .....ONLY £ 10.49

CLEANING

KITS

## SELECTED PCW TITLES

#### INTEGRATED

MINI OFFICE PROFESSIONAL...£35.25

D.T.P. STOP PRESS £35.25

#### DATABASES

MASTERFILE 8000 ..... £35,25 LOCOFILE ..

#### LEISURE

CLASSIC COLLECTION VOL 1 ...£10.81 CLASSIC COLLECTION VOL 2 ...£10.81 TIME AND MAGIK. £10.81 TOMAHAWK. £14.98 SCRABBLE. £14.98 CLASSIC GAMES 4. £14.98 **CLOCK CHESS 89.** £14.98 HOME ENTERTAINMENT CENTRE ...£14.98 WORLD OF SOCCER. £16.32

#### WORD PROCESSING

LOCOFILE WITH LOCOSCRIPT, £43.71 LOCOSCRIPT 2 £33.04 LOCOSPELL ... £25,99 LOCOMAIL £33.04 LOCOFILE WITH LOCOMAIL. €48.88 LOCOSCRIPT 2/LOCOSPELL ....£41.30 PRINTER SUPPORT PACK. £32 91

#### **SPREADSHEETS**

CRACKER II TURBO PLUS.....£39.95

#### **EDUCATION**

SCHOOLS OUT... **ULTIMATE SUMS** £10.81 ULTIMATE QUIZ. £10.81

#### **ACCOUNTS**

MONEY MANAGER £46.95





ON ORDERS BELOW £15 PLEASE ADD £1.50 TOWARDS POSTAGE AND PACKING.

3" DISK STORAGE

CASE - HOLDS

10 DISKS

FOR ONLY £6.93. YOUR ORDER CAN BE DELIVERED WITHIN 24 HRS (WEEK DAYS ONLY) GUARANTEED BEFORE 1.00P/ (ORDERS MUST BE PLACED BEFORE 3.30PM) ADDS UP TO A BETTER DEAL FROM

COMPUMART LIMITED, FREEPOST (80+) JUBILEE DRIVE, LOUGHBOROUGH, LEICS. LETT OBR TEL: 0509 610444 FAX: 0509 610235



# THE WEST OF BRITAIN

YOU MUST ADD V.A.T. TO OUR PRICES

AMSTRAD PCW's
THE NEW RANGE OF AMSTRAD PCW's - ALL WITH PAPER WHITE
THE NEW RANGE
MONITORS With FREE WBBS. Ltd disk containing a DATABASE,
GRAPHS PACK, PSYCHOLOGICAL TEST and GAME: PLUS a FULLY
FEATURED evaluation copy of the excellent & easy to use "SIMPLE ACCOUNTS II" by CORNIX SOFTWARE.

PCW9512+DW PCW9512+BJ PCW8956 PCW9512

| NEW RANGE PCW - 256K Ram/3.5" drive/dot matrix printer       | £324.00 |
|--|---------|
| NEW RANGE PCW as 9512 with DAISYWHEEL but with 3.5" drive    | £419.00 |
| NEW RANGE PCW as above but with CANON BUBBLE JET PRINTER!    | £499.00 |
| Green screen, single 3" drive, 256K Ram                      | £279.00 |
| Paper White screen, single 3* high density drive, DAISYWHEEL | £365.00 |
|  |         |

#### OSICOM: THE PC MADE IN THE U.S.A.!

#### OSICOM EXECUTIVE SL286

High performance 80286-based slimline available in either 12 or 16MHz 1Mb Onboard Ram exp. to 4Mb / Fully IBM compatible/hard disk up to 330Mb 2 serial/1 parallel port/5 exp. slots. 1.44Mb floppy/102 key keyboard

| SL286/12 S/DR VGA MONO   | 487.00 |
|--------------------------|--------|
| SL286/12 HD40 VGA MONO   | 599.00 |
| SL286/12 HD80 VGA MONO   | 711.00 |
| SL286/12 HD80 COLOUR VGA | 845.00 |
| SL286/16 HD40 COLOUR VGA | 778.00 |
| SL286/16 HD80 COLOUR VGA | 890.00 |

#### OSICOM EXECUTIVE SL386SX

Low-profile PC using 386SX chip to deliver 386 power at 286 price. 16MHz 1Mb onboard Ram exp. to 8Mb / Fully IBM compatible/hard disk up to 330Mb 2 serial/1 parallel port/4 exp. slots 1.44Mb floppy / 102 key keyboard

| SL386/SX HD40 VGA MONO   | 823.00  |
|--------------------------|---------|
| SL386/SX HD40 COLOUR VGA | 958.00  |
| SL386/SX HD80 VGA MONO   | 935.00  |
| SL386/SX HD80 COLOUR VGA | 1069.00 |

#### **OSICOM EXECUTIVE SL386/25**

Zero wait-state 25MHz power offers more than just increased speed. Uses 80386DX chip/2Mb onboard Ram/exp. 8Mb IBM compatible/hard to 330Mb, 2 serial/1 parallel port/4 exp. slots, 1,44Mb Floppy / 102 key keyboard.

| SL386/25 HD80 COLOUR VGA          | .1338.00 |
|-----------------------------------|----------|
| SL386/25 HD130 COLOUR VGA         | .1450.00 |
| SL386/33 HD130 COLOUR VGA         | .1898.00 |
| SL386/33 HD1050 COLOUR VGA        | 3578.00  |
| Call us ref. OSICOM options + 486 | RANGE    |

#### **GOLDSTAR** The real Goldstar that is

Exceptional quality from one of the world: piggest manufacturers of PC's

Please contact us for details of over 90 models from £649.00 - £3799.00

#### AMSTRAD DEALER: FULL AMSTRAD RANGE COMMODORE DEALER: FULL COMMODORE RANGE

#### LAPTOP SPECIALS

| CAMBRIDGE Z88: A unique no          | otepad size |
|-------------------------------------|-------------|
| computer which is ideal for linking | ng with ANY |
| Amstrad PCW                         | £190        |
| Hardware regd. to make the link     | £24.00      |
| COMMODORE 286LT 16MHz: 20Mb         | HD£999.00   |
| COMMODORE 386SX-LT 16MHz: 20/       | Mb £1229.00 |
| AMSTRAD ALT286/20Mb                 | £1099.00    |
| AMSTRAD ALT386SX/40Mb               |             |
| AMSTRAD ALT386SX/80Mb               | £1699.00    |
|                                     |             |

#### **OUR GUARANTEE:**

ls special. If a computer or printer we sold without on-site maintenance develops a warranty fault - we will collect, repair & return at our cost OR BETTER YETI

ASK US ABOUT ON-SITE MAINTENANCE ON PC'S AND PRINTERS THAT DON'T HAVE IT AS STANDARD - NEW OR OLD MACHINES

## PCW STARTER PACKS-All together now

10 x CF2 3" disks OR 20 x 3.5" disks suitable for use in the new PCW's. 3" - 3.5" locking disk box + 2000 sheets listing paper (11" x 9.5") 3 printe ribbons/drive cleaner & dust covers. ALL FOR THE

> State machine type when ordering & state fabric or carbon ribbons

#### HARD DISK FOR THE PCW

| Diamond 20Mb PCW Hard Disk  | £379.00  |
|-----------------------------|----------|
| Diamond 32Mb PCW Hard Disk  | £459.00  |
| Diamond 48Mb PCW Hard Disk  | £539.00  |
| THE ABOVE RANGE CAN BE SH   | HARED BY |
| MULTIPLE PCW's - DETAILS AV | AILABLE  |
| CCAL MENU (COTTO) LIAND DIC | V DALLOS |

| SO 13 ITEM TORIESTING DIS | IL IA HADE |
|---------------------------|------------|
| 20Mb Hard disk unit       | £298.00    |
| 30Mb with Locoscript/File | £359.00    |
| 40Mb with Locoscript/File | £420.00    |
| 60Mb with Locoscript/File | £529.00    |
| Optional extra - 519K ram | £58.00     |
| 768K ram                  | £78.00     |
|                           |            |

#### 3" DISKS AT SPECIAL PRICES

| CF2 3*          | <b>AMSOFT</b> | PCW/CPC | × | 5  | £8.50  |
|-----------------|---------------|---------|---|----|--------|
|                 | <b>AMSOFT</b> |         | X | 10 | £13.10 |
|                 | <b>AMSOFT</b> |         | X | 20 | £25.99 |
|                 | <b>AMSOFT</b> |         | X | 30 | £38.70 |
|                 | <b>AMSOFT</b> |         | × | 40 | £51.25 |
|                 | <b>AMSOFT</b> |         | × | 50 | £63.50 |
| CF2 3*          |               |         |   |    | £9.50  |
| and the same of | MAXELL        |         | X | 10 | £16.50 |
| 100             | MAXELL        |         |   |    | £32.00 |
| 15              | MAXELL        |         | X | 30 | £47.50 |
|                 | MAXELL        |         | X | 50 | £78.00 |

MAXELL individually cased disks add £2.00 pe 10 to above Maxell prices.

#### 3.5" DISKS AT SPECIAL PRICES

| 3.5" Bulk-Unbranded       | x 10£8.50                  |
|---------------------------|----------------------------|
| 3.5" Bulk-Unbranded       | x 20£13.10                 |
| 3.5" Bulk-Unbranded       | x 50£32.00                 |
| 3.5" 3M/TDK Brand         | x 10£12.80                 |
| 3.5" 3M/TDK Brand         | x 20£24.50                 |
| All 3.5" disks advertised | guaranteed suitable fo     |
| the NEW RANGE OF PCW      | I's and the 3.5" drives we |
| advertise                 |                            |

#### E OF DICKE AT CRECIAL PRICES

|       | שולוט בייני       | OI ECIME I MICES   |
|-------|-------------------|--------------------|
| 5.25* | Bulk-Unbranded    | x 25£10.45         |
| 5.25* | 3M/TDK Brand      | x 10£9.80          |
|       | suitable for PACE | other 5 05* drives |

#### **RAMPACKS & RS232 INTERFACES BY SCA**

The RamPac plugs onto expansion port to provide extra Ram. Through connector allows other peripherals.

| 512K RamPac  | £88.00  |
|--------------|---------|
| 768K RamPac  | £108.00 |
| 1.5Mb RamPac | £188.00 |

#### RS232 SERIAL/PARALLEL INTERFACES

| With Real Time Clock    | £50.00 |
|-------------------------|--------|
| Without Real Time Clock | £41.70 |

#### New-SCA RamPac & Interface combined

| SCA PRO8256 (256K Ram) | £74.5  |
|------------------------|--------|
| SCA PRO8512 (512K Ram) | £94.0  |
| SCA PRO8768 (768K Ram) | £114.0 |

# UPGRADE YOUR PCW - ADD ANOTHER DRIVE - INCREASE THE MEMORY - IT CAN BE DONE!

#### TEGNICHE - A PCW 102 KEY KEYBOARD!!

mply unplug your existing keyboard, plug this one in and start typing! £59.00

Memory Upgrade - for PCW8256.....£16.98 256K upgrade takes your memory up to that of the 8512. Recommended for use with LocoSpell and Microdesign II. Very easy to fit - full

3.5" DISK DRIVE FOR THE AMSTRAD PCW ... For use either on the PCW8256 or 9512 but r 8512 (external only)... £69.00

PACE - 5.25° 2nd drive with its own built in interface & power supply. TDOS software allows data transfer from PCW/PC/PCW. Very easy to fit Also works as fully functional 2nd CP/M or Locoscript drive...

PCW 2 in 1 Disk and File Manager: Also allows you to transfer DATA on 3.5" or 5.25" disk from your PCW to PC and from PC to PCW.

#### A NEW RANGE OF PCW EXTERNAL DRIVES FROM WEST OF BRITAIN BUSINESS SERVICES LTD

#### **DRIVE TYPE 1**

EXTERNAL 3.5" B: DRIVE FOR 8256/9512 706K on 8256 / 720K on 9512 ...

#### **DRIVE TYPE 3** EXTERNAL 3.5" 2nd B: DRIVE for use when 2x3" drives are already fitted. Switch enables you

to choose between the 3" B: & the 3.5"

#### DRIVE TYPE 5

DATADUAL 8-3.5" Ext. The ULTIMATE in PCW drives! Use with 1 or 2 existing drives - either as a 2nd B: drive or at the flick of a switch it will act as a 3.5" A: drivel...

#### **DRIVE TYPE 2**

EXT. 5.25" B: DRIVE FOR 8256/9512 706K on 8256 / 720K on 9512

#### **DRIVE TYPE 4**

EXTERNAL 5.25" 2nd B: DRIVE for use when 2x3" drives are already fitted. Switch enables you to choose between the 3" B: & the 5.25"

#### **DRIVE TYPE 6**

DATADUAL 9-3.5" Ext. The ULTIMATE in PCW drives! Use with 1 or 9 existing drives - either as a 2nd B: drive or at the flick of a switch it will ct as a 3.5" A: drivel...

When ordering or asking for further details please quote the drive type number.

#### PRINTER PIRRONS

| 1 1 MILL OF MILE I  | 11000110     |       |
|---------------------|--------------|-------|
| PCW8256/8512 dot n  | natrix print | er    |
| FABRIC (14m length) | x 2          | 6.50  |
|                     | x 10         | 29.25 |
| CARBON MULTISTRIKE  | x 2          | 6.50  |
|                     | x 10         | 29.25 |
| PCW9512 daisywhee   | printer      |       |
| CARBON MULTISTRIKE  | x 2          | 6.00  |
|                     | × 10         | 27.00 |
| FABRIC TYPE         | x 2          | 6.00  |
|                     | x 10         | 27.00 |
| AMSTRAD Brand Fab.  | or Car. x 2  | 11.97 |
|                     | 10           | EE OO |

| PCW8256/8512 COLOU         | RF   | RIBBO | NS     |
|----------------------------|------|-------|--------|
| 'phone for availability    | ×    | 2     | .11.80 |
| SELECTION OF OTHER PR      | IN   | RIBB  | ONS    |
| CITIZEN SWIFT 24           | X    | 2     | 9.00   |
| SWIFT 24 COLOUR            | X    | 2     | .29.00 |
| STAR LC10                  | X    | 2     | 6.30   |
| LC24-10                    | X    | 2     | 7.10   |
| PANASONIC KXP1124          | X    | 2     | 9.50   |
| DISK STORAGE B             | OX   | ES    |        |
| AMS10 (Ams. br'd) holds 10 | )    |       | 6.00   |
| DS40L 3" / 3.5" - Lockable |      |       | 8.50   |
| DS80L 3" / 3.5" - Lockable | **** |       | .11.50 |

We supply exactly what you order Please make sure that what you are ordering is going to be right for you. We do not sell goods on approval

#### COMPUTER PAPER

| 11" x 9.5" Continuous List    | ing    |       |
|-------------------------------|--------|-------|
| SP/05 1 sheet thick - 500 she | eets   | 9.80  |
| SP/10 1 sheet thick - 1000 sh | neets  | 11.30 |
| SP/20 1 sheet thick - 2000 sh | neets  | 15.60 |
| A4 (TRUE A4) 80gsm - Cor      | ntinuo | us    |
| Plain white/micro perf. x     | 500    | 13.90 |
| Plain white/micro perf. x     | 1000   | 19.95 |
| Plain white/micro perf. x     | 2000   | 33.50 |
| A4 Single Sheets - white x    | 500    | 8.25  |
| A4 Single Sheets - white x    | 1000   | 13.75 |
| LABELS - WITH SPROCKET        | HOLES  |       |
| One wide 3.5" x 1 7/16"       | 500    | 9.95  |
|                               | 1000   | 13.75 |
| **                            | 2000   | 22.50 |

#### **EXTRAS FOR DRIVES**

#### 1 to 6 - above:

| ADDITIONAL CABLE BREAK(to make the drive detachable)   | £5.00  |
|--|--------|
| ADDITIONAL SET OF LEADS(to fit another PCW)  | £17.00 |
| 5 VOLT POWER SUPPLY(for 3.5* disk drive)   | £8.50  |
| 5/12 VOLT POWER SUPPLY(for 5.25* disk drive)   | £14.80 |
| EXTRA FOR 1.44 Megabyte drive<br>(this capacity will NOT be used by to<br>but is for future use) |        |

#### RIBBON RE-INK Do it yourself!!

black re-inking spray suitable for most fabric ribbon types. Propellent free so environmen £11.00

## FAX & MODEMS FOR HOME OR OFFICE

| SAMSUNG: SF1000 FAX<br>AMSTRAD: 9600AT FAX/A PHONE      | £265.00<br>£376.00 |
|---|--------------------|
| AMSTRAD SM2400 EXTERNAL MODEM.                          | £154.00            |
| PACE LINNETT MODEM V21/V23                              | £130.40            |
| Cable to PCW interface(Communications software for PCW) | £13.90             |
| Sage Chit Chat Combo                                    | £62.50             |
| Mini Office Pro   | £25.87             |
| LINESHARE 2000 FAX SPLITTER                             |                    |

#### BBD DUST COVER SETS -SIMPLY THE BEST!

and many more available.

| PCW8256/8512 - 3 piece grey£10.80  |
|------------------------------------|
| PCW9512 - 3 piece ivory£12.80      |
| PCW9512 with sheetfeeder£12.80     |
| PCW9512 PLUS: with bubblejetP.O.A. |
| PCW9519 PILIS: with daiswheel POA  |

To place an order by telephone we will need to know the following:

- Today's date.
   Your name and address.
   Your telephone number in case of problems. 4. The name of the magazine where you saw this advert.
- 5. The type and number of the credit card you wish us to debit. The expiry date of the card.
- and lastly: 7. The item(s) you wish to purchase making sure we know exactly which type of machine it is to work with.

4000 49 50

Please make Cheques/P.O's payable to "W.B.B.S. Ltd."

Please note - we have moved our Sales and Despatch departments to new premises All enquiries should now be directed to this address.



#### ACCOUNTS PACKAGES FOR THE PCW

If you are unsure which package you need for your business please do not hesitate to telephone us and we will listen to your needs and describe the various packages to you in clear jargonless terms - but leave you to decide

| CORNIX CONTRACTOR: a combination of         | F SIMPLE ACCOUNTS II & JOB ESTIMATING.   |
|---|--|
| A MUST IF YOU ARE RUNNING YOUR OWN          | BUSINESS - ONLY AVAILABLE FROM W.B.B.S.  |
| LTD! CORNIX CONTRACTOR (rrp if bought inc   | dividually £178.00) OUR PRICE JUST£99.00 |
| SIMPLE ACCOUNTS II£54.00                    | JOB ESTIMATING£59.50                     |
| INVOICING£43.00                             | PRODUCT COSTING£59.50                    |
| STOCK CONTROL (needs invoicing).£33.90      | INVOICING & STOCK CONTROL£69.00          |
| ENTRY CHANGE for Simple Accounts II - for I | no fuss neat corrections£16.90           |

#### D.R.S. TOTAL ACCOUNTING

| ı | TOTAL ACCOUNTING                             |
|---|--|
| ı | Fantastic value£58.00                        |
| ı | Excellent features - Easy to use Full Sales/ |
|   | Purchase & Nominal ledger system with        |
| ı | the benefit of Invoicing. All integrated:    |
| ı | Phone for details now.                       |

| The state of the s | THE PERSON NAMED IN | CONTRACTOR OF THE PARTY. | THE PERSON NAMED IN |
|--|---------------------|--------------------------|---------------------|
| AACDIDIA   | LICTOCUL            | ADVETI                   | 00.00               |

#### COMPACT ACCOUNTS

| COMPACT ACCOUNTS                    |             |
|-------------------------------------|-------------|
| We use Compact for our own accour   | nts system. |
| The best is on the PCWI             |             |
| COMPACT ACCOUNTS                    | £168.00     |
| Sales/Purchase/Nominal Ledgers plus | Invoicing/  |
| Report Writer & Interfacer.         |             |

| Keport writ            | er or ii | iteliace | 21.5 |       |        |
|------------------------|----------|----------|------|-------|--------|
| COMPACT                | ACCO     | UNTS P   | LUS  | <br>£ | 198.00 |
| As above<br>Processing | plus     |          |      |       |        |

| COMPACT          | COMPLETE ACCOUN     | ITS£289.00         |
|------------------|---------------------|--------------------|
| This new bo      | undle provides even | ything you need to |
| run a busir      | ness including Payr | OIL FULL DETAILS   |
| <b>AVAILABLE</b> | 20.00               |                    |
| FULL RA          | ANGE OF STATIONE    | RY AVAILABLE       |

#### AMSTRAD PCW SOFTWARE

| THE COMPOSERS PEN II               | 62.00 |
|------------------------------------|-------|
| FLIPPER III need 512K memory       | 29.00 |
| M.A.S.S. EASY LABELLER - excellent | 21.00 |

#### PCW - WORDPROCESSING

| PROTEXT - THE FULL SYSTEM32.90            |
|---|
| Very fast wordprocessor / Spell Checker / |
| Superb Mail-Merge utility.                |
| PRO-EAZE - needs Protext to run19.00      |
| Automated suite of 30 programs,           |
| produces invoices, credit notes etc.      |
| NewWord 2 - The Classic WordStar look-    |
| alike: inc. Spellchecker/MMerge42.40      |
|   |

#### It is always important to state the type of PCW you own when you order!

| LOCOSCRIPT II                            |
|--|
| LOCOCOMBO - Locoscript II & Spell .30.00 |
| LOCOMAIL & FILE - for which PCW?35.00    |
| LOCOFILE - state which PCW used26.00     |
| New Thesaurus - use with LOCOFILE12.80   |
| LOCOMAIL - use with Locoscript II 23.75  |
| LOCOSPELL - use with Locoscript II21.00  |
| LOCOFONT DISK (contains old              |
| Locofont 1 & Locofont 2)\$\$4.90         |
| LOCOSCRIPT II & LOCOFILE33.00            |
| LOCOMOTIVE PRINTER Support Pack .24.90   |
| always state the type of PCW you use.    |

#### SAGE ACCOUNTS

| Popula  | ar Accounts                      | 54.00    |
|---------|----------------------------------|----------|
| Popula  | ar Accounts Plus                 | 85.00    |
|         | ar Payroll                       | 40.00    |
| 25-4/20 | CAMSOFT ACCOUNTS                 |          |
| PSIL    | Integrated Stock/Invoicing/Sal   | es/      |
|         | Purchase & Nominal ledgers       | 149.00   |
|         | Very fast, all on one disk so no | o disk   |
|         | swapping involved.               |          |
| PSPN    | fully integrated SALES/PURCH.    | ASE &    |
|         | NOMINAL LEDGERS - fastl          | 89.00    |
| PPAY    | Payroll                          | 45.00    |
| PINV    | Invoicing                        | 45.00    |
| PSTK    | Stock Control                    | 45.00    |
| PSAL    | Sales Ledger                     | 45.00    |
| PNOM    | Nominal Ledger                   | 45.00    |
| All     | Camsoft programs now with O      | NE FULL  |
| YEAR    | S FREE CAMSOFT TELEPHONE !       | SUPPORT! |

#### CONNECT SYSTEMS - Money Manager PCW

| MONEY MANAGER PCW  |      |     |
|--|------|-----|
| Great value!<br>This is the very latest version<br>Connect stables - a top seller. | £37  | .90 |
| This is the very latest version  | from | the |
| Connect stables - a top seller.  |      |     |

| CAVALIER SOFTWARE            |       |
|------------------------------|-------|
| nstock                       | 65.0  |
| nbusiness (integrated)       | 130.0 |
| Homeview: Estate Agents prog | 169.9 |
| Re-Chord: Music Library prog | 26.0  |
| DICITA                       |       |

Business Controller.

DIGITA SYSTEM 3.

# SPREADSHEETS & INTEGRATED PACKS

P.O.A

POA

| Mini Office Pro-Integrated pack  | 22.00 |
|----------------------------------|-------|
| SUPERCALC II - Spreadsheet       | 32.00 |
| CRACKER II TURBO + - Spreadsheet | 29.50 |

#### DATABASES

| Masterfile 8000 - best general buy | 28.00 |
|------------------------------------|-------|
| Cornix Card Index - easy to use    | 21.00 |
| dBase II - very powerful           | 42.00 |
| Locofile - state which PCW used    | 26.00 |

## PRINTERS: WIDE RANGE: SAMPLE PRICES

| CITIZEN  | 120D             | £120.00                   |
|----------|------------------|---------------------------|
|          | 124D             | £174.00                   |
|          | SWIFT 24         | £249.00                   |
|          | en Dot Matrix o  | come with two years<br>y. |
| MANNE    | SMANN TALLY      | (reputedly strongest      |
| printers | in the world - p | robably are) From the     |
| MT81 at  | iust             | £133.00                   |

## BOOKS ARE ZERO RATED SO DO NOT ADD V.A.T.:

| All in one business computing PCorPCW (explains use of MINI OFFICE). £11.95 C Prog'ing Principles & Practice. £12.95 Introducing C £12.95 Working with DBase II £11.95 DBase III Plus £12.95 Illustrated Locoscript £10.95 Locofile Standard User Guide £19.95 Locomail Standard User Guide £19.95 | Locoscript Standard User Guide£19.95<br>Lososcript II " " (Spiral Bound) £19.95<br>L/S II + Mail + Spell + File£10.95<br>Mallard Basic Manual For PCW£9.95<br>Mastering Masterfile£12.95<br>Protext, A PCW Users Guide£12.95<br>Supercalc Prompt: Supercalc 3£10.95<br>Successful Credit Control£17.95<br>Using this we reduced our debtors by 75% |
|--|--|
| * PLEASE NOTE THE STANDARD USER GUIDES   | ARE EXACTLY AS ISSUED WITH SOFTWARE PACK   |
|  | C Prog'ing Principles & Practice         £12.95           Introducing C         £12.95           Working with DBase II         £11.95           DBase III Plus         £12.95           Illustrated Locoscript         £10.95           Locofile Standard User Guide         £19.95           Locomail Standard User Guide         £19.95          |

#### IF ONLY ORDERING ONE BOOK PLEASE ADD £2.35 TO COVER P&P

#### **DESKTOP PUBLISHING - DESIGN - GRAPHICS**

| MICRO DESIGN II - A revolution in desktop | publishing on the Amstrad PCW!£33.90 |
|---|--------------------------------------|
|---|--------------------------------------|

RUNS ON the PCW8956/8519/9519 (the 9519 needs a dot matrix printer to print). \*★ TEXT EDITING: TYPESETTING: FONT DESIGN: GRAPHICS: DIAGRAMS: LOGOS ★★

NEW FROM THE PRODUCERS OF MICRODESIGN II - PROSCAN - A HAND SCANNER FOR THE PCW!

ProScan - allows you to scan text and/or graphics in from almost any type of source in a form that can be incorporated into your dtp document & even edited to fit both in size and content. High quality equipment.......£143.50

| 110 CONTRACTOR OF THE PROPERTY |  |
|--|--|
| MicroDesign II + Kempston mouse & Interfac<br>MicroDesign II + Logitech/AMX type Mouse &<br>Stop Press + Mouse & Interface£56.00<br>Stop Press - software only£27.00   | e (includes Jeeves & Daatafax)   |
| PCW DRAW - at last a professional drafting/design pack£33.00   | Mouse Mat - non-slip surface£4.35 (the mouse mat helps prevent dust pick up and skidding during use) |

WE SUPPLY EXACTLY WHAT YOU ORDER PLEASE MAKE SURE THAT WHAT YOU ARE ORDERING IS WHAT YOU WANTIII SORRY BUT WE DO NOT SELL ON APPROVAL

#### **EDUCATIONAL & FUN!**

e Animal Mineral Veg

| bourne: Animal, Mineral, veg        | 11.77   |
|-------------------------------------|---------|
| Bourne: World Wise                  | 11.99   |
| D.G.C. EDUCATIONAL SOFTWA           | ARE     |
| DGC: Junior Playtime 4-8 years      | 10.90   |
| DGC: Schools Out (5 games)          | 10.90   |
| LCL Micro Maths 8 years to adult    | 16.90   |
| LCL Micro English 8 to adult        | 16.90   |
| TOPOLOGIKA                          |         |
| Giantkiller (maths adv. 9-16 yrs)   | 12.85   |
| Yes Chancellor (UK Economy sim)     | 12.85   |
| IANSYST                             |         |
| Crash Course in Typing              | 15.60   |
| Two Fingers to Touch Typing         | 15.60   |
| KOSMOS LANGUAGE TUTO                | RS      |
| French, German, Spanish & Italian - | very,   |
| very flexible courses - each just   | .£13.50 |
| APEX BUSINESS LANGUAGE TU           | TORS    |
| French/German/Spanish each at       | 29.00   |
| SCHOOL SOFTWARE                     |         |
| Better Spelling - age 8 to adult    | 12.90   |
| Magic Maths - age 4-8 years         | 12.90   |
| Maths Mania - age 8-12 years        | 12.90   |
| Better Maths - age 12-16 years      | 12.90   |
| Physics, Chemistry or Biology       |         |
| age 12-16 years: EACH AT            | 16.00   |

#### REELTIME Top quality training courses on disk with instructor on audio tape

| RT - LocoScript II - PCW9512     | 29.90 |
|----------------------------------|-------|
| RT - LocoScript - PCW8256/512    | 29.90 |
| RT - LocoScript II - PCW8256/512 | 29.90 |
| RT - CP/M - use your computer!   | 29.90 |
| RT - SuperCalc II                | 29.90 |
| RT - dBASE II                    | 29.90 |
| DESIGNED ESPECIALLY FOR NEW      | USERS |

#### SUNDRIES

| Mouse Mat                            | 4.35  |
|--------------------------------------|-------|
| 'Margin Maker (MM3i) new out!        | 12.50 |
| Spike Protector plug - helps protect |       |
| computer or other equipment against  |       |
| power surges (we use them)           | 10.25 |
| 3" Disk head cleaner                 | 5.00  |
| 3.5" Disk head cleaner               | 5.00  |
| 5.95" Disk head cleaner              | 5.00  |
|                                      |       |

#### \* AMSTRAD PCW 9512 SHOULDER BAGS \* Two part tightly woven black nylon. Monitor & keyboard in shoulder bag &

....24.50

#### printer in matching holdall. \* \* LINK YOUR PCW TO A PC! \* \*

Like to run your accounts on a PC but use your PCW as a workstation? Send for details of Compact Accounts PC2PC!

#### **PCW LEISURE**

| * * ADVENTURE GAMES *         | *        |
|-------------------------------|----------|
| Scapeghost!                   | 12.50    |
| Lancelot - 3 adventures in 1  | 13.20    |
| * The Professional Adventure  | Writer * |
| ★ Write your own adventures ★ | 18.00    |
| Mindfighter                   | 15.00    |
| Time and Magik - 3 games in 1 | 9.90     |
| * * TOPOLOGIKA ADVENTUR       | ES * *   |
| Acheton                       | 12.80    |
| Avon/Murdac                   | 15.20    |
| Countdown to Doom             | 12.80    |
| Kingdom of Hamil              | 12.80    |
| Philosophers Quest            | 12.80    |
| Return to Doom                | 12.80    |
| * * SIMULATIONS * *           |          |
| The Tarot Program             | 21.73    |
|                               |          |

| ro-Punter (racing bet aid)      | 39.00 |
|---------------------------------|-------|
| ro-Pools (forecasting aid)      | 34.60 |
| C.E. Flight Sim - special!!\$   | 12.50 |
| uran: aboard Russian Shuttle    | 12.50 |
| Grand Slam: realistic tennis    | 12.50 |
| ank Attack - NEW PROGRAM        | 14.80 |
| Vorld of Soccer                 | 12.00 |
| omahawk - helicopter simulaiton | 12.70 |
| Graham Gooches Test Cricket \$  | 12.80 |
| Headcoach - American football   | 12.00 |
| + + ACTION + +                  |       |

#### \* \* ACTION \* \*

| 12.50 |
|-------|
| 12.50 |
| 9.90  |
| 12.20 |
|       |

#### \* \* TABLE GAMES \* \*

| Scrabble Deluxe                     | 15.50  |
|-------------------------------------|--------|
| Bridge Player Galactica             | 19.80  |
| Home Entertainment Centre           | 12.10  |
| Colossus IV Bridge                  | 11.80  |
| Clock Chess 89 - very powerful      | 12.70  |
| Colossus IV Chess                   | .13.50 |
| Trivial Pursuit - latest version\$  | 15.20  |
| Steve Davis Snooker                 | .10.80 |
| Classic Games 4 (4 board games)     | .12.80 |
| Games showing \$ not for use on PCV | 79512  |
|                                     |        |

#### Kempston Interface & Joystick....\$.....25.00 Programming Languages

| HiSoft Pascal 80          | 33.85 |
|---------------------------|-------|
| HiSoft C                  | 33.85 |
| HiSoft Devpac80           | 33.85 |
| HiSoft FTL Modula - 2     | 36.80 |
| HiSoft FTL Editor Toolkit | 29.00 |
| HISOft FTL APK            | 29.00 |
| HISOft NEVADA COBOL       | 33.85 |
|                           | 17.35 |
| HiSoft Knife Plus         | 17.35 |

The complete disk recovery system. Sector copier and build-file option.

ARNOR 'C': Full development sys. .....27.21 IF YOU DON'T SEE IT - ASK.

If you see anything we

CALLERS WELCOME BUT STRICTLY BY APPOINTMENT PLEASE.

you see anything we sell being sold cheaper elsewhere phone us before you buy - Open 9am to 5pm. MONDAY TO FRIDAY.

Postage is FREE on orders over £10.00 net. If less than this please
add £2.00 to cover postage. YOU MUST ADD VAT @ 17.5% No export orders.

Prices and descriptions subject to change without notice (trading conditions available upon request). All trademarks ack.

WEST OF BRITAIN BUSINESS SERVICES LTD. DEPT 8 ENTERPRISE HOUSE, BEECHWOOD INDUSTRIAL ESTATE, LLANDEILO, DYFED, SA19 7HR. TEL: (0558) 823782



ANSWER PHONE (823782) & FAX (823923) lines open 24 hours for orders.
GOVT. DEPTS / LOCAL & EDUCATIONAL AUTHORITY CREDIT ORDERS ADD 3% TO CASH PRICE



# Arnor's 1991 PCW Software Sale

#### PROTEXT ... The Word Processor

Protext is firmly established as the alternative to Locoscript.

All the features you would expect from a good word processor - many text editing commands, print commands, spell checking and mail-merging. The refinement and thought that has been put into the program - logical keystrokes and commands, clear layout, speed and power ... all go towards making Protext ideal for the novice or the experienced user.

\*On-screen help \* Typewriter mode \* Insert or overwrite typing mode \* Word count \* Undelete feature \* Move/copy/delete/print blocks of text \* Box manipulation \* Configuration \* Personal dictionaries \* Exec files \* Two file editing \* Keyboard macros \* File conversion \* Comprehensive Find & Replace \* Foreign languages and accents \* Program editing mode \* Proportional printing, right justified \* Conditional printing and loop constructs \* Print any number of copies \* Works with any printer \* Calculator \* Print labels \* Use the maths/string functions to produce personalised invoices etc \*

\* Compatible with PCW 9512 \* Enhanced spelling checker - larger dictionaries, dictionary on drive M or on program disc \* Many improvements based on customer feedback \*

"Protext deserves to be the system by which all other word processors are judged ... a superb product YOUR COMPUTER

"The great strength of this package is its ease of use" CWTA

"Protext is the solution to all Locoscript's drawbacks" PCW

"Makes Locoscript look like a snail" 8000 PLUS

"Simply the best word processing program to date for the PCW ... Locoscript is effectively dead PUTTING YOUR AMSTRAD TO WORK

Protext is also available in German at £59.95 (Prowort)

#### Special Offer - Save £20

Buy Protext together with the book for £49.90 and save £20 off RRP. (RRP £59.95 + £9.95 = £69.90)

Protext + Book £49.90

#### ... The Book

This is an independently produced book about Protext, written by Rob Ainsley.

The book features a large section of tips for easy reference and is well illustrated with screen shots and printouts.

It also includes a section written to help the Locoscript user to 'convert' quickly to Protext.

It is an essential purchase for any current or potential Protext user whatever their word processing experience.

Protext...A PCW User's guide 246 pages, illustrated paperback

Price £9.95 + £1 post/packing (Post/packing is free if buying a piece of software)

# CP/M languages and PC Protext

Complete CP/M machine code development system

\* Macro assembler \* nested conditional assembly \* file inclusion \* textual substitution of macro parameters \* repeat loops \* Full expression evaluation \* Error listing to screen/file/printer \* 8080 mode \* Linking facility \* Create object files for use with C

Window based monitor, with:

\* line assembler \* disassembler \* memory editor \* find string \* relocate \* move memory \* compare memory \* fill memory \* bank switching \* symbolic debugger \* single stepping \* set memory limits for stepping \* stack checking \* conditional breakpoints \* trace mode \* edit registers

\* Editor is program mode of Protext (as for C) \*

"Maxam II - now the best gets even better"

"A really excellent piece of software which, given the speed "A really excellent piece of solitions will pay its way very with which debugging can be done, will pay its way very quickty"

"The thing that struck me ... was the amount of thought and effort that has gone into this product" CWTA CPC and effort that has gone into this product "

"Maxam II is stunning ... the most complete and competent programming package around. Simple, speedy and sophisticated " AMSTRAD ACTION sophisticated "

RRP £49.95

Sale price £24.00

Complete C development system

\* Full implementation of K&R standard \*

Optimising compiler \* Floating point arithmetic \* 32 and 16 bit integer arithmetic

\* I/O and maths libraries \* Conditional compilation \* File inclusion \* Macros \* Linker accepts C and assembler (with Maxam II) \* Stand alone generator produces COM files

Protext compatible editor:-

\*fast and easy to use \*on screen help \* two file editing \* keyboard macros \* fully configurable\* powerful find and replace

\* exec files \* compile from inside editor

"Very good value for money" AMSTRAD PCW

"Streets ahead in terms of programming
AMSTRAD ACTION

"In typical Amor fashion, they've taken their time and got it right" AMSTRAD COMPUTER USER

"All the facilities necessary to write complete applications programs "
POPULAR COMPUTING WEEKLY

RRP £49.95 Sale price £24.00 **Upgrading to a PC?** 

Protext v5.0 is now available for the PC at a special upgrade price of £110 (inc. VAT) for all PCW users. Send us your original Protext or Locoscript disc with your order.

Protext has been designed as a PC program, not as an imitation of PCW program and thus complements other PC software much better than Locoscript PC.

Features include justification and centring of any mixture of different printing fonts, including proportional; extensive language including support Eastern European languages; multiple file editing; split screen editing; index and contents; footnotes and newspaper column printing.

For further details please contact Arnor. Protext 5.0 is available for IBM PC and compatibles, Amiga, Atari ST and Acorn Archimedes.

All programs run on PCW8256/8512, 9512, CPC6128

### Releasing your micro's potential ...



Arnor Ltd (EP), 611 Lincoln Road, Peterborough, PE1 3HA. Tel: 0733 68909 All prices include VAT, postage and packing. Access/Visa/Cheque/Postal Order. Fax: 0733 67299

# **The Learning Curve**

Getting to grips with your PCW isn't always an easy task. Alec Rae looks at a new LocoScript tutorial for absolute beginners

#### ZAPLEARN LOCOSCRIPT 1 BASIC ■ £27.50 + vat (inc p&p) ■ Sword Computers ■ (0204) 496274

There are two distinct types of PCW user. There is the instinctive kind people who read the LocoScript manual as far as the third page, load it up and press all the buttons until they get something to work. And then there is the careful, systematic kind.

If you tend towards the first description keep well clear of Zaplearn's LocoScript 1 Basic training tutorial. If you are of the second persuasion - and if you know absolutely nothing about LocoScript 1 - you could well find the tutorial ideal.

This is the first in what is promised to be quite an extensive series of tutorials on all aspects of LocoScript 1 and 2 and all the Locomotive products. But LocoScript 1 Basic must be the ultimate test for this kind of program.

This is aimed very much at the person who is staring, with open eyed wonder, into a PCW screen for the first time. It takes absolute beginners, gently but firmly by the hand and leads them through those first nerve-wracking few sessions when you are convinced that if you press the wrong button the PCW will explode in your face.

And it does this very, very thoroughly. It is perhaps difficult for some 8000 Plus readers to remember that far back, but there was a time when even they weren't quite sure what 'a cursor' was (It appears that it's not an 8000 Plus reviewer when his PCW crashes).

So wouldn't it have been wonderful to have a little line of text on screen saying "This is the cursor" and a little arrow pointing directly at the cursor. There would certainly have been no doubt in your mind.

Here is both the strength and weakness of the Zaplearn tutorial. There has been a lot of thought put into them and a lot of pre-planning. If you follow exactly the instructions on screen a lot of clever things happen (like, for instance, the cursor duly appearing alongside the little arrow).

#### "Ve haf vays ...."

But you really have to follow the instructions to the letter. You get dire warnings in the manual like "TEXT before an instruction may TELL you what you are GOING to do. BUT DO NOT DO IT UNTIL I INSTRUCT YOU TO DO SO ... "OK. There's no need to

shout. Of course there are very good reasons for this "Ve haf vays of making you follow instructions.." attitude. If you start disappearing off into corners to do your own thing you can get lost and all the careful planning of the tutorial goes out of the window.

For terrified beginners this strong, forceful attitude might be reassuring. But for the more adventurous it may also miss what many consider the real fun of learning LocoScript - pressing buttons to see what will happen. And honestly, noone has yet found the combination of keystrokes that makes the PCW explode.

The idea behind the Zaplearn tutorials is sublimely simple. You load up the program you are learning - in this case LocoScript 1 - move one of a number of lengthy text files into the

M:drive, open it up and start reading. The text on screen tells you exactly what to do, what buttons to press, where to place the cursor and anything else you can think of in almost total detail.

It doesn't just say press the [+] key beside the Space bar. It describes the key and where it is found on the keyboard in minute detail. Then when you have the idea of which key it is talking about it explains, with the same thoroughness and patience, the short form that it will use to describe that keystroke.

We would defy anyone to still be confused after that.

#### A talking PCW?

sound a bit heavy and sombre, which is not the case. The writing is light and

This perhaps makes the whole thing all

Printer idle. Using M: Page 5 line f7=Spell f8=Options tions f2=Layout f3=Style f4=Size f5=Page f7=Spell to-Options
Look at your screen. Can you see a flashing box? That is your CURSOR and it is
there to show you where you are on the screen. Think of it like, THE POINT OF A
PENCIL ON A SHEET OF PAPER, WHERE YOU ARE GOING TO START TO WRITE. At some point in time you are going to need to move that cursor to someplace in your document to edit your text. So, to move this CURSOR, the four ARROW keys, (†,  $\downarrow$ ,  $\leftarrow$ ,  $\rightarrow$ ), or, CURSOR MOVEMENT keys, are used. Try this: PRESS + 5 TIMES PRESS + UP 5 TIMES PRESS + LEFT 5 TIMES PRESS + DOWN 5 TIMES ck where it started from. So, you have the ability to move of the document. By ONE KEYPUSH at A TIME per CHARACTER, in his. PRESS PAGE + This is the CURSOR

Imagine the excitement at finding out what a cursor is - and how to move it around

#### CP/M VERSUS LOCOSCRIPT

There is an argument to say that tutorials like this needn't have been written in LocoScript at all. For instance, all the really fancy software tutorials you get on IBM compatible PCs work separately from the program they are demonstrating.

You load the demonstration program and it fairly whips you through simulations of the program screens and demonstrating all the commands using the power of modern computer technology.

You press [RETURN] and the cursor leaps all over the screen, ghostly hands type interesting things in the right place on the screen and you can carry out the most complex operations imaginable in seconds.

The argument is that a program could have been written in CP/M to produce all this technological wizardry - learning without tears. The disadvantage is that you never really seem to learn anything from such tutorials. You know that the program can do all sorts of really clever things, but it usually happens too quickly for you to take things in properly.

This is quite the opposite with Zaplearn. It won't leave a subject until you know it thoroughly. If it did, you could always scroll back and read it again. And there is nothing like the 'hands on' approach, pressing keys and seeing what happens.

#### A good deal

**Sword Computers** usually sell their Zaplearn LocoScript 1 package for £27.50 plus VAT. However, for 8000 Plus readers, the program is on offer at a discounted price. So, if you order direct from Sword, be sure to claim your 10% discount!

#### Look around!

If you don't feel like teaching yourself LocoScript, you could always attend a course at a local college or institute. For details of organisations in your area, why not turn to the Good Club and Training Guide on page 59 of this issue!

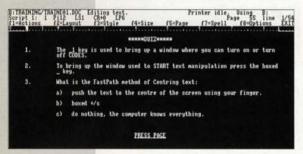
#### Training Review



Regular reviews make sure you have not missed anything the first three times



The page layout is designed to allow you to look at menus without obliterating text



#### Some really tricky questions in the quiz

humourous. It is written in a easy-going conversational manner using the first person. It takes to page 37 of the first lesson to explain that this first person is actually the PCW talking to you (we think it used a ghost writer).

This informal, chatty approach works quite well. Certainly any computer that chats to you in such a friendly way can't be too frightening. There are little quizzes to make sure you are paying attention but even the PCW admits that it doesn't make these too hard. For instance to centre text it gives you three options

- a) Push the text to the centre of the screen with your finger
- b) boxed +/C
- c) Do nothing. The computer knows everything

Even if you don't know the answer, take a wild stab at it.

Things get a bit more difficult as you go on. For instance, in the last tutorial you get difficult posers like "You set margins by

a) using a ruler to draw two lines down the edge of the screen.

b) pressing [f2], selecting NEW or CHANGE LAYOUT then using the GHOST CURSOR on the SCALE LINE and using the [f1] and [f2] options. c) turning OFF the computer and have half an hour's sulk.

We must admit it had us stumped. This comes, remember, after having learnt the process in minute detail and having read through a review of the work so far. Under the circumstances, you feel the quizzes could have been more testing.

Don't think it is all just boring reading. There are only a small number of words on each page and it is laid out to make it easy to read. There are no great swathes of text to plough through.

Considerable thought has been given to the positioning of the words. For instance in the section talking about how to use the menu system to embolden or italicise words, the text is placed in such a way that you can call up the menu and not obliterate any of the instructions.

They have even used the, admittedly, limited graphic abilities of LocoScript to produce a reasonable simulation of LocoScript menus.

And there is always something to do. You carry out the instructions on the text on the page, immediately putting into effect what you have just learnt.

As the pages slowly scroll by (there are 62 pages in the first lesson alone) you slowly but surely build up a systematic knowledge of the program, eventually covering the inner mysteries of text handling and page layouts.

The final element is a series of practice documents. You use these to put into practice the skills you have learnt. You delete and add text, move blocks, correct spelling, highlight text and produce quite complex layouts.

This is backed up by a reasonably thick manual showing you what the final example should look like.

Again it is filled with dire threats, such as:- DO NOT TURN TO THE INSTRUCTION SHEETS IN THIS MANUAL UNTIL THE TRAINING DOCUMENT ON THE SCREEN TELLS YOU - but it is really a good idea in principle.

There is a world of difference between knowing what to do in theory and actually putting it into practice. One possible disadvantage to this kind of tutorial is the fact that, by its very nature, it has to adopt a "Tell me the keystrokes" kind of approach.

Nowadays software programmers work very hard (and the Locomotive team work as hard as anybody) to produce user friendly software that you can use instinctively - without constant reference to a book or manual.

When you look at a LocoScript screen there should be enough clues there to tell you what to do or where to go to carry out any task. If you want to change the Layout of the page it is probably more sensible to train the learner to look at the top of the screen to look for the words f2=LAYOUT than to expect them to remember to press [f2] to get the Layout menu.

Trying to learn any program purely by heart is both difficult and confusing. While Zaplearn LocoScript 1 Basic is very thorough, it perhaps doesn't pay enough attention to the theory behind using software. And this rigid. regimented attitude might even increase the users fears of using the program.

Newcomers need to be told that there is very little that can go seriously wrong when playing about in LocoScript - not constantly reminded that they have to follow instructions to the letter or else some inexplicable dire consequence will surely follow.

Having said this, there are people who are so nervous of computers that they agonise for hours over each keystroke. For these people this might well be the only way to give them the confidence they rely upon to get them started on the right footing.

And finally, Zaplearn LocoScript 1 Basic is really for absolute beginners. If you have used the program before it will probably be more sensible to save up for LocoScript Advanced.

#### COMING SOON....

A real strength in the Zaplearn series of tutorials is that there are modified versions to suit each type of PCW. This is very sensible. Say you want to describe in detail where the [f1] is you would have to mention where it was on an 8000 series machine keyboard and then another description of where it was on a 9512 keyboard or even on a Technique keyboard (they are all quite different).

By the time you had ploughed though all the options you would probably have lost interest in finding it anyway.

So for the LocoScript 1 Basic tutorial there is a different version for a PCW 8256 and a PCW 8512. There is even another two versions set up for anyone using a Technique keyboard on either 8000 series machine.

For the LocoScript 2 Basic the choice is even wider with a special version for a 9512 and another for a 9512 with a technique keyboard. This makes a grand total of six permutations

That is all that is out at present but the company is promising a number of launches in the near future. There will be a LocoScript 1 Advanced tutorial and an Advanced LocoScript 2 version for all the possible permutations of machines.

For further in the future the company are planning programs to cover Locofile, LocoMail and LocoPC. It is with programs like LocoFile and LocoMail that a Zaplearn tutorial would probably come into its own.

LocoMail, for instance, is a complex, sophisticated program and therefore not one the most approachable pieces of software. A set of hands-on practical examples would be an ideal way to get started.

VERDICT - An ideal program for any absolute beginner who is nervous of using LocoScript. The later programs, giving more advanced tuition on more complex subjects would probably be of more value generally.

#### Zaplearn LocoScript

#### Pluses

- It is very thorough
- You put the skills you learn into practice immediately.

#### **Minuses**

- A bit rigid in its approach
- Doesn't bring out the true intuitive nature of LocoScript
- This program is only for absolute beginners.

Ease of Use 3/5 Documentation 3/5 Range of features 4/5 4/5 Performance

8000 PLUS

value verdict 14/20

#### FOR £69 YOU CAN GET YOU CAN GET

FOREWORD TOO.

n 1989 we launched Flipper 2 Plus, a program that could split your PCW between CP/M and Locoscript 2 (or between two lots of CP/M - or even between two lots of Locoscript 2, if you had enough memory). It could whisk you from one side to the other in as little as two seconds, without losing your place. Impressive stuff, you might think - until you saw its replacement.



The all-new Flipper 3 can do everything Flipper 2 Plus could, and a whole lot more besides. Why just divide your PCW in two? If you've got enough memory, Flipper 3 can split your machine into as many as eight separate sections, each one of them a complete CP/M or Locoscript 2 set-up, and each one just seconds away.

Flipper 3 is flexible. You choose how many sections to create, how large to make them and what to put in them. If you change your mind halfway through a session you can pool several small sections into one big one, or split a big section down into several small ones - without affecting anything else you're doing.

Above all, Flipper 3 is easy to use. There's a menu system to make things simple, and a thorough manual to keep them that way. Even installing Flipper 3 is easy: it comes on a self-booting disk which you can back up and use immediately.

If you're still rebooting your machine every time you need to get between CP/M and Locoscript 2, or quitting your spreadsheet every time you want to check your database, there's really no

| Pleas  | e send me:   |
|--------|--|
| F      | Flipper 3 - I enclose a cheque/PO for £34.95   |
| F      | Foreword - I enclose a cheque/PO for £44.95  |
| □ F    | Flipper 3 & Foreword - I enclose a cheque/PO for £69   |
| Pleas  | e upgrade the enclosed Flipper master disk to Flipper 3 for the -8256/85129512                           |
|        | enclose a cheque/PO for £10  |
| o r    | ve ordered Foreword above, so I'm entitled to a free upgrade.  |
| NB: y  | rou must specify machine type when ordering upgrades.  |
| Prices | include UK postage and packing, and VAT at 17.5%. Please make all cheques payable to Software Imperation |
| Nam    | e:   |
| Addr   | ess:   |
|        |  |
|        | Postcode:  |
|        | rusicoue   |
| Mail   | this coupon to:  |
| Sof    | tware Imperative, 11 Chapel Row, Queen Square, Bath, BA1 1HN   |

We still sell Foreword - the word pre-processor. Whatever kind of writing you do - from lab reports to novels, from sermons to dissertations - you'll find Foreword makes the job quicker and easier. Don't waste time planning things on paper first: start typing your ideas into Foreword straight away, and the structure of your piece will develop naturally as you go.



Break a topic down into manageable chunks, flesh them out with text, and shuffle them around as your ideas take shape. Don't worry about getting bogged down in details: Foreword's "Hide" function lets you fold your text away until only section headings or chapter titles show up on

screen. Eight levels of detail give you complete control over how much or how little of the whole piece you look at. With Foreword you can see the wood *and* the trees.

That's not al!. Whether you're rewriting one paragraph or scrolling over a 20,000-word essay, you'll find Foreword is astoundingly fast. It can go from top to bottom of a 64K document in 3 seconds, or word-count the whole thing in 11 seconds.

Foreword can share memory with Locoscript 2 or CP/M, letting you switch backwards and forwards in just 1 second. It can take up as little as 112K of memory, or as much as your PCW has got. It can edit up to eight documents at once. It works with Flipper 2 Plus and Flipper 3. It's easy to install and use, with a 40-page manual that caters for beginners and experts alike. No wonder 8000 Plus magazine rated Foreword 20/20!

Flipper 3 - £34.95 inc VAT Foreword - £44.95 inc VAT Flipper 3 & Foreword - £69 inc VAT (saving over £10).

Flipper 3 and Foreword both require at least 512K of memory: to use the programs together, or with non-legal CP/M programs like Mini Office and MicroDesign II, extra memory is essential. Both programs support current versions of Locoscript 2 - v2.16 or later - and all versions of CP/M. Hard drives, non-standard disk formats and foreign-language keyboards may cause problems - please check before ordering.

Software Imperative, 11 Chapel Row, Queen Square, Bath, BA1 1HN, proprietor A.J.Wilton, tel (0225) 425315

All trademarks acknowledged.

CF2 DISKS £14.50/10

# MASSIVE SALE

MICRODESIGN 2 £39.95

PLUS FREE AMSTRAD DISK BOX WITH ORDERS OVER £30 (Please ask)

#### HIS MONTHS SPECIAL OFFERS

| 10 AMSOFT CF2         | £14.95 | 10 CF2 IN FANFILE£15.95      |
|-----------------------|--------|------------------------------|
| dBASE II SOFTWARE     | £39.95 | TEQNICHE KEYBOARD£70.00      |
| MICRODESIGN 2         | £39.95 | AMX MOUSE & INTERFACE £47.50 |
| AMSTRAD CPS8256       | £29.95 | PCW9512 SHEETFEEDER£69.00    |
| 3.5" DISK DRIVE       | £79.95 | LOCOMAIL£14.95               |
| 2000 SHEETS 11 x 9.5" |        | 2000 A4 CONT-PAPER£20.95     |
| PAPER                 | £18.50 | AMSTRAD CPS8256 INTERFACE &  |
| KEMPSTON MOUSE        |        | PRINTER SUPPORT PACK £54.95  |
| INTERFACE & JEEVES/   |        | PROSCAN£169.00               |
| DATAFAX SOFTWARE      | £49.95 | PACE LINNET MODEM£99.00      |



#### **Compact Personal Shredders**

A conventional and ecor information confidential. ntional and economical way to keep confidential

**SAVE 17.5% OFF M.R.P.** 

Telescopic arm to fit all waste bins from 13 1/4" to 19.5" wide (337 to 495mm)

Reverse from 15 1/4" to 19.5" wide

Reverse function to prevent jams

Not suitable for continuous bulk shredding
PS30 - Safety on/off switch - shreds up to 3 sheets/pass
PS50 - automatic on/off switch - shreds up to 5 sheets/pass
deskside wastebin - tailor made for the PS30 & 50 - desk
side height for easy use - sturdy varnished fibreboard
construction with plastic topframe.
PS30 £99.00 PS50 £129.00 BIN £6.95

#### WORKSTATION adjustable printer stand

with paper tray
An adjustable printer stand, with a paper tray for maximum utilisation of space and efficient management of printout. Paper is stored underneath the printer and the fully adjustable tray collects and stacks over 200 sheets of any size printout.

- Adjustable to take all desk top printers
   Paper guides ease the flow of paper through the printer
   Cable manager keeps wire clear of any paper flow
   Adjustable legs gives a choice of three printer angles to aid
   viewing and use of printer
   Non skid rubber feet protect work surfaces
   Foam strips reduce printer noise and vibration.

Foam strips reduce printer noise and vibration

£18.95

WORKSTATION adjustable printer stand
The ultimate in flexibility, two free standing legs adjust to suit
any size of printer and can be set to a choice of three angles

any size of printer and can be set to a choice of three angle for improved visibility.

Fits rear and bottom feed printers

Non-slip feet prevent skidding and scratching

Padded foam strips supplied to reduce printer vibration

Printout paper stores neatly beneath stand to save desk

£13.50

#### MOBILE PRINTER STAND

- Paper is fed from the bottom shelf and is caught on a removable tray for easy transport
   Completely mobile with four nylon casters with locking option
   Compact dimensions (height 20"/51cm) enables storage
   under desk or work surface
   Extra paper storage available with optional shelf code no
   40909

- Delivered ready-to-assemble.
   STAND £49.95 EXTRA SHELF £12.95

#### **HIGH QUALITY DISKS**

| Quantity                 | 5     | 10     | 20     | 50     | 100     |
|--------------------------|-------|--------|--------|--------|---------|
| Panasonic 3"             | £9.95 | £14.50 | £28.50 | £69.95 | £135.00 |
| Amsoft 3"                | £9.95 | £14.95 | £29.50 | £72.00 | £138.00 |
| TDK/Sony 3.5"            | £5.25 | £9.95  | £19.00 | £45.00 | £85.00  |
| Bulk Verbatim 3.5"       | £4.95 | £7.95  | £14.95 | £35.00 | £68.00  |
| Philips DS/DD 5.25"      | £3.50 | £5.95  | £10.95 | £25.00 | £48.00  |
| Bulk DS/DD 5.25"         | £2.50 | £4.95  | £9.50  | £22.00 | £39.00  |
| 3" & 3.5" Disk labels    | .45p  | .85p   | £1.50  | £2.50  | £4.50   |
| 3" Rigid plastic cases   | £2.50 | £4.95  | £9.45  | £19.95 | £39.00  |
| 3.5" Rigid plastic cases | £2.50 | £4.95  | £9.45  | £19.95 | £39.00  |

3" HEAD CLEANING KIT £4.95

#### SOFTWARE

| dBase II£39.95             | LocoScript PC v1.5£105.00      |
|----------------------------|--------------------------------|
| Mini Office Prof£26.95     | LocoLink£29.95                 |
| Microdesign 2£39.95        | Proscan & free gift£169.95     |
| Supercalc II£44.00         | MD Font Library£26.50          |
| LocoScript II£29.50        | LocoScript II & File (8)£43.95 |
| LocoFile (8-9)£32.95       | LocoFont Set (1 & 2)£29.00     |
| Printer Support Pack£27.50 | LocoScript II & Spell£37.50    |
| Amsoft LocoMail£14.95      | Desktop Publisher£24.95        |
|                            |                                |

(But if you see it advertised cheaper, we'll beat it) MANY OTHER TITLES AVAILABLE - PLEASE SEND S.A.E. FOR FREE CATALOGUE

#### **BASIC PROGRAMMERS**

'PCW: BASIC TUTORIAL"! An interactive disk based course of 6 lessons. Ideal for the novice,

"PCW: PEEK & POKE" an advanced course of 15 chapters, complete with exercises

£12.95

"PCW: STREAMLINED BASIC" Much valuable information not to be found elsewhere improve your programming techniques.
Complete with disk full of sample programs £18.95

#### MORE PRICE BUSTERS TEAC 3.5" B DRIVE: Includes FREE software to read

PCW disks on APC compatible. External, plug in 'n' go £79.95 TEAC 3.5" B Drive: Internal ......

#### DISK BOXES - HOLD 3" OR 3.5" DISKS

| 30 CF2 capacity£5.95                          | 3" head cleaning kit£4.95                      |
|---|--|
| 60 CF2 capacity£9.95                          | Amstrad 10 cap disk box £4.95                  |
| Both sizes complete with dividers, keys, etc. | 5.25" disk box 140 cap£9.95<br>10 capacity box |
| Small 5 capacity box (holds<br>CF2 only)£2.95 | & 10 Amsoft£18.99                              |

#### **SAVE 17.5% OFF M.R.P.**

#### WORKSTATION COPYHOLD NON-MAGNETIC DESKTOP SERIES

This desktop easel range is totally safe for use with mag-netic media. Made of high-impact plastic they have an adjustable reading angle and accommodate up to 3/8" (10mm) thickness of paper. In a choice of three colours and sizes they have a firm paper holder and highlighted line guide.

#### DESK CLAMP STYLE

Same face plate as the desktop model but with space saving base design which makes them ideal for use on either left or right of a terminal or behind typewriters.

- Two tone contemporary styling
   Wide base and clip takes up to 20mm of paper
   Adjustable height of paper holding clip can take A4, foolscap and fax paper
   Adjustable lineguide for maximum flexibility.

#### ANTI-GLARE FILTERS

MESH VDU ANTI-GLARE FILTER £24.50

Increases contrast whilst reducing glare and reflection, making VDU screen easier to read, reducing eyestrain and increasing operator efficiency.

Unique hanging method for easy fitting/adjustment/removal

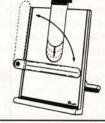
- One screen fits a number of different terminal types.

#### **GLASS VDU ANTI-GLARE FILTER**

- Eliminates virtually all on screen glare and reflection
   Improves contrast by us to fifteen the second sec
- Improves contrast by up to fifteen times Ideal for use with high resolution VDU's

A4 SIZE £11.95 A3 SIZE £13.95





If you see any item advertised cheaper in this magazine we will beat it on the spot!



ALL PRICES INCLUDE VAT & P&P

#### HIGH QUALITY RIBBONS FROM £2.99

| PCW 8256/8512                             | PCW951 |
|---|--------|
| Black fabric £2.99                        | £2.99  |
| Carbon film (black)£4.25                  | £2.99  |
| Coloured fabric £4.95                     | £4.95  |
| Red, blue, green, brown, purple and yelle | DW     |
| Printhead cleaning ribbon                 | €4.94  |
| Ribbon re-ink - re-inks 30 ribbons        |        |

#### **CONTINUOUS PAPER & LABELS**

| PAPER - FANFOLD, MICROPERFED, 70GSM |       |        |             |       |        |
|-------------------------------------|-------|--------|-------------|-------|--------|
| True A4                             | Qty   |        | 11"x9.5"    | Qty   |        |
| White bond                          | 200   | £5.95  | White bond  | 500   | £7.95  |
| White bond                          | 500   | £8.95  | White bond  | 1,000 | £13.95 |
| White bond                          | 1,000 | £14.95 | 60asm White | 2,000 | £19.95 |
| White bond                          | 2,000 | £20.95 | 80gsm A4    | 2,000 | £21.95 |

#### LABELS - FANFOLD, QUALITY LABELS WON'T JAM PRINTER

| The second secon | when were abou  |        |
|--|-----------------|--------|
| PCW DUSTCOVERS   | 2pce £8.95 3pce | £10.95 |
| 3 1/2 x 1 1/16 £6.45   | £11.95          | £39.00 |
| 3 1/2 x 15/16 £5.45<br>3 1/2 x 1 7/16 £6.45  |                 | £35.00 |
| 23/4 x 1 7/16 £6.45  | £11.95          | £37.00 |

#### REMEMBER. OUR PRICES INCLUDE VAT & DELIVERY!

FREE AMSTRAD DISK BOX WITH ORDERS

OVER £30 (Please ask)

CREDIT CARD HOTLINE (0384) 66269 VISA

#### Free catalogue

**PCW-WORLD** Cotswold House, Cradley Heath, Warley, B64 7NF. Fax: (0384) 66269.

All products guaranteed. All prices include VAT & delivery. We accept credit card, cheque, P.O.'s, local authority, govt. purchase orders

# **Tweak Preview**

MicroDesign expert Rod Patient takes a look at how Creative Technology's utilities disc can help you add flair to your DTP designs

ust when you thought that you had reached desktop publishing perfection with the output from your trusty old PCW using MicroDesign, along came Tweak. Written by Creative Technology and included on their utilities disc, it could more appropriately have been entitled "Everything You Ever Wanted To Do To A Graphic Image But Were Afraid To Ask!"

If you were a lecturer in advanced mathematics you will understand how complex this program is; if not – and we suspect that this goes for the majority of you – you will have to take our word for it – Tweak is very powerful! But don't let that put you off. All the complicated bits are hidden behind the usual user-friendly face common to MicroDesign and ProSCAN. Because of the complexity of the calculations involved, some operations can take a long time (did we hear someone mention 4 hours for an ambitious Circle operation?).

In reality, most of the operations we have used took between 5 and 20 minutes to process. This sounds like a perfectly good excuse to treat your PCW to a Cirtech Sprinter!

A couple of points to bear in mind before we start. Before creating your "tweaked" image, think about how you want the finished image to look. You can not just tell Tweak to make your graphic into a teardrop shape or a fan and so on. What you must do is break down the required result into stages and then work out which of Tweak's operations to use (and in which order) to achieve that required end result. Some shapes, for example the "teardrop", only require one Tweak operation. Others will need four or five operations depending on the complexity of the required result.

When using several different operations, it is a good idea to save each stage under a different filename. In that way, if something goes wrong (and the chances are that it will!) you won't have to start again from scratch.

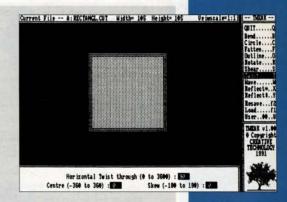
The best way to learn, they say, is to have a go – but before we do, it may be useful to understand a few basic things about the effects we are going to use. When "Tweaking" an area, the original image stays the same relative size.

The settings we choose alter the frequency of the effect and the position of the image within the effects cycle.

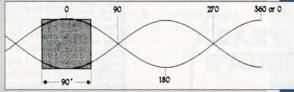
Consider the following image (a shaded rectangle) used with the Twist operation.

#### PRACTICAL EXERCISE ONE - USING TWIST

In this first example, our image represents 90 degrees of the cycle (one cycle is 360 degrees). We know that the angle will be 90 degrees because we set it at 90 degrees. The Centre of the rectangle is held at zero degrees by setting it at zero degrees. Skew (the offset between the two opposing wave forms of the image) is also held at zero. After the settings are made and we press [ENTER], our original rectangle will be "squashed" to fit into the area defined by the Twist waves.



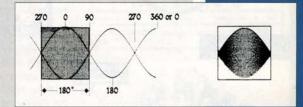
This time, note the effect when we set the angle to 180 degrees (half a cycle). The Centre and Skew settings remain at zero. From this it can be seen that the higher the



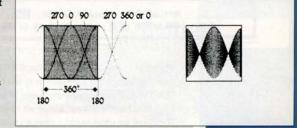


number of degrees set for the angle, the steeper the curve will be. It follows of course that the lower the number of degrees the shallower the curve.

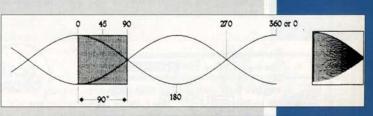
The same rectangle again but this time the angle is set to 360 degrees (a full cycle). The Centre and Skew setting still remain at zero. Increasing the angle beyond 360 degrees will start the cycle over again and give more twists to the image.



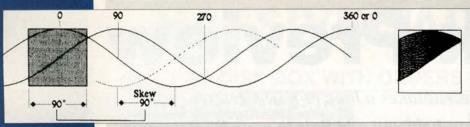
We use the original rectangle again (it must be getting worn out by now!) with the angle set to 90 degrees, but this time move the Centre to 45 degrees instead of zero. You can see from the diagram that this has pushed our rectangle along the wave and created a different final shape. The Skew is still set to zero degrees.



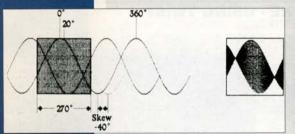
Although these examples have been on a "Horizontal Ribbon", the same effects will be achieved using the "Vertical Ribbon", except that the sides will be affected instead of the



top and bottom. Don't forget that the Skew angle is directly related to the Twist angle. By that we mean that at a Twist angle of 90 degrees, a Skew angle of 90 degrees will shift the waves out of phase by the width of the original image.



Still with our old faithful rectangle, in this example we set a Horizontal Twist through 270 degrees, a Centre of 20 degrees and a Skew of minus 40 degrees. Again you can see from the diagram that this makes a drastic change to the appearance of the original image.

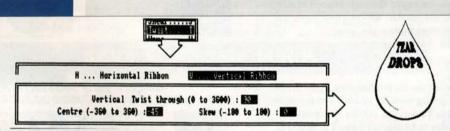


There are thousands of combinations that can be used with the Twist operation, but by now you should have some idea of the effect that each setting makes to the original image. It is worth sitting down with pen and paper to work out a particular effect, but you will learn a lot more by experimenting and noting down the result of certain settings.

#### PRACTICAL EXERCISE 2 - TEARDROPS

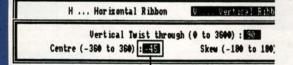


STEP ONE - SETTING UP The original design for this simple example was created in MicroDesign using the "Ellipse" Shape operation from the Design section. Once in medium thickness to create the outer shape and again at a slightly smaller size for the inner reflection. The unwanted section of the inner ellipse was "rubbed out" using the Paint operation with white ink and the remaining section Flooded with a "grey" pattern to soften its appearance. The letters were then added using the Write operation with the Bolden22 font from Extra Fonts Disc 2.



STEP TWO - IMPORTING THE IMAGE INTO TWEAK

The next step in the operation is to boot-up Tweak and load the file TEARDROP.CUT by giving the name of the file at the load prompt. To create the "Teardrop" shape we need to pinch the top of the ellipse only. Therefore we need to use Tweak's Twist operation and position the design in the top half of a Vertical Ribbon by using the settings shown in the next diagram.



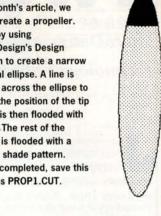


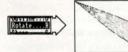
STEP THREE If you forget to set the Centre of the Twist at MINUS 45 degrees, you are probably looking at a design not unlike this!

#### PRACTICAL EXERCISE 3.

STEP ONE

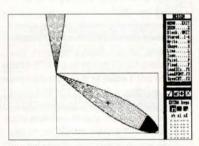
For the next example in this month's article, we shall create a propeller. Start by using MicroDesign's Design section to create a narrow vertical ellipse. A line is drawn across the ellipse to mark the position of the tip which is then flooded with black. The rest of the shape is flooded with a "grey" shade pattern. When completed, save this area as PROP1.CUT.





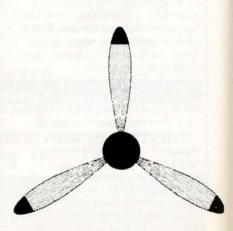
#### STEP THREE

In this example, we want to create a three blade propeller. The first blade, PROP2.CUT, is finished, so we can move on to the second one. As there are 360 degrees in a circle, each of the three blades needs to be a third of the way around the circle. PROP2.CUT is assumed to be at zero degrees, so blade number two must be set at 120 degrees (a third of 360). To achieve this, use PROP2.CUT

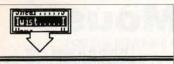


STEP FOUR

To create the third and final blade, use PROP3.CUT and select Reflect "X" option. This time give the filename PROP4.CUT.



#### A PROPELLER



1 Ribbon

V ... Vertical Ribbon

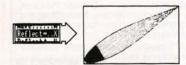
wist through (0 to 3600) : 30

): 40

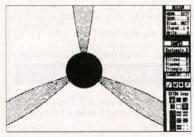
Skew (-180 to 180) : 0

#### STEP TWO

Load PROP1.CUT into Tweak. To create the first blade of the propeller we need to twist the blade vertically. To achieve this, select Twist on a vertical ribbon. As we want our blade to appear to have a half twist, set the degrees to 90. To pinch one end only, position the blade within the ribbon at a centre of 40 degrees. Save this blade as PROP2.CUT.



and Tweak's Rotate operation. Select 120 degrees and Superfine mode (you can use "Normal" for quickness but the results won't be as good!). When prompted give the name PROP3.CUT. When the rotate has finished, you will have some unwanted "white space" around the image. To reduce this select Resave/crop [Y] and re-enter the name PROP3.CUT. When asked if you wish to overwrite, type [Y] to confirm.



#### STEP FIVE

The last part of the operation is to put the three blades together. Using MicroDesign's Design section, load PROP2.CUT, scroll down the page so that the "sharp end" of PROP2.CUT is still in view and load PROP3.CUT so that the top left corner lines up with the tip of PROP2.CUT. Repeat with PROP4.CUT. All that remains is to use the Circle Shape operation with pattern fill to create the propeller cone.The bottom (Icon) window is toggled off using [SHIFT]+[RELAY].

#### STEP SIX

Exit to the Layout section and save the complete area as PROP3BLD.MDA. Try a 4 or 5 blade propeller - use PROP2.CUT and just remember to divide 360 by the number of blades to get the angle for the Rotate operation. When you have finished, you can then erase the files PROP1-4.CUT.

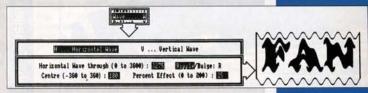
#### PRACTICAL EXERCISE 4 - HAND HELD FAN

STEP ONE - CREATING THE ORIGINAL IMAGE

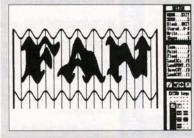
For the third exercise we shall create a Hand Held Fan, using the MicroDesign and Tweak programs. The first stage is to create a large rectangle with medium line thickness, in MicroDesign's Design section. The size is up to you, but try to make the rectangle width approximately twice the height or the finished result is going to look rather strange. In our example, the letters F A N were added using the Bolden84 font from CT's Extra Fonts Disc 2. Save this to disc as FAN1.CUT



STEP TWO - CREATING A WAVE PATTERN Load FAN1.CUT into Tweak. To give a "concertina" effect to our fan we need to create a wave pattern



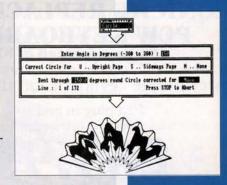
along the top and bottom edges. To do this select Horizontal Wave (to wave the top and bottom edge) and Ripple, to keep the waves "in phase". The Wave angle is set to 3275 degrees to give us 9 and a bit waves (to ensure that the end waves reach their summit). 180 degrees is used to set the Centre in a "valley" with four and a half waves either side. Finally a Percent Effect of 25 is used to make each of the waves a quarter of the original rectangle height (100% equals full height).

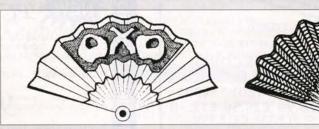


STEP THREE - USING LINE
Load MicroDesign again and load
FAN2.CUT into the Design section.
Use the Line operation to add vertical
lines joining the peaks and troughs,
extending the lines a little way past
the bottom as shown in diagram 13.
Save to disc as FAN3.CUT.

#### STEP FOUR - CREATING AN ARC

Load FAN3.CUT into Tweak. We now need to form the area into an arc, so we need Circle. As an arc is only part of a circle, we set the degrees to 150 (minus 150 will arc the fan upwards). You will then be prompted for circle correction which is necessary because of the non-square pixels on a PCW. Set this according to which page format you intend using to print from later. If you have ProSCAN and use the HIGH-Q printer driver, set this to None. This time save the image as FAN4.MDA (note - .MDA not .CUT - because if you started with a fairly large rectangle, it will not fit MicroDesign's Design window once Circled).





#### STEP FIVE - FINISHING TOUCHES

The final part to creating the Hand Held Fan is to load FAN4.MDA into MicroDesign's Layout section and then move to the Design section.

Use the Shape and Line operations to join up and add a "hinge" to the bottom of the fan. When completed save to disc as HANDFAN.MDA. You can then erase the files FAN1-3.CUT and FAN4.MDA. Finally, using the same methods, here's some we did earlier!





USE ANY SINGLE-SHEET STATIONERY!

#### MARGIN MAKER MM3i

PLACES PAPER PRECISELY for TOP QUALITY RESULTS!

Save Paper & Time! Quick & Accurate! No Guessing, Fiddling, Skewing! For PCW 8256/8512. Use 100gms paper, letterheads, forms, etc. Easy to fit, adjust, use. GREAT GIFT; Treat yourself! MM3i Only £17.95



**☎** (0784) 452677 **☎** 



"MaxaFit" Professional model, stunning performance! For 9512 and 85% of all impact printers. Phone for fit details.....£35.50 "Invaluable aid!" "Maxafit is of the highest quality." "Extremely delighted!" "Very accurate, an excellent accessory!" "Immediately impressed!" "A real boon!" Treat yourself!

Prices Incl. VAT & p+p. Phone for further Product Details.

#### TEONICHE REPLACEMENT PCW KEYBOARDS

102 Keys instead of 82

A "Touch" of luxury an AT style keyboard for all PCW's



Plus Free keyboard dust cover Dust cover for PCW keyboard £6.95

AMSOFT CF-2 DISKS £14.99 £29.50 £72.50

FOR QUANTITIES ABOVE 50 PLEASE CALL US!

| SOFTWARE   | PRINTER RIBBONS   |
|--|---|
| Mini office Pro £29.95<br>Locoscript 2 £29.50<br>* Locofile £31.50 | PCW 8256/8512£3.25<br>PCW 9512£2.99                           |
| * Locomail   | MANY OTHER RIBBONS AVAILABLE PLEASE CALL  LOCKABLE DISK BOXES |
| Locoscript 2 & Locospell£36.95<br>Locoscript 2 & Locofile£39.95    | 30 Capacity£6.95<br>+10 CF2 Disks£19.95                       |
| Printer Support Pack£29.50<br>(* For use with Locoscript 2 only)   | 60 Capacity£8.95<br>+10 CF2 Disks£21.99                       |

★ ALL PRICES INCLUDE VAT & POSTAGE (UK MAINLAND) ★

Cheques made payable to: 051 648 5402 051 648 5402 **GENESIS MARKETING** 

73 Coombe Road, Irby, Wirral, L61 4UW

VISA

#### Advertising --- Architecture --- Artwork

# Mouse





"When it is used with MicroDesign or ProSCAN, then KeyMouse is indisputably at the top of the tree." (8000 Plus)

KeyMouse is a revolutionary **Professional** Mouse that simultaneously shares the PCW Keyboard Socket, leaving your Expansion Slot free. Other PCW mice are limited to 30 to 60 dots per inch (dpi). KeyMouse's dynamic 72 to 400 dpi resolution give a much more accurate and responsive feel. KeyMouse is DYNAMIC, slow movements draw short lines, fast movements draw long lines. Special software ensures that vertical and horizontal lines really are straight. Primarily for MicroDesign 2, KeyMouse can even be used with LocoScript and Protext.

KeyMouse comes complete with software to upgrade Microdesign 2 and ProSCAN, a Mouse Mat and comprehensive Instruction Booklet. **Keymouse**.....(£43.43 + VAT) = £49.95.

# MicroDesign 2

"EASY AND FUN TO USE" "The ultimate DTP package." (8000 Plus)

Runs on the PCW 8256, 8512 and 9512. Fully compatible with files from LocoScript 2, Protext, Wordstar, AMX Stop Press. The Desktop Publisher, Mini-Office Professional, ProScan, Rombo Vidi Digitiser, MasterScan and other PCW software packages. Supports most popular Mouse systems and 9 pin, 24 pin, Laser and Bubble Jet printers.

Huge range of fonts (25 built in), Typestyles and Typsetting functions. Extensive range of Graphic Art and Design facilities.

MICRODESIGN 2 (£34.89 + VAT).....

£41.00

MICRODESIGN 2 with KeyMouse (£75.42 + VAT).....

£88.50

COLOUR BROCHURES for MD2 and ProSCAN on request. SAE appreciated.

ProScan is a Professional Scanning Package, comprising Interface Software and Hand Scanner, from Creative Technology for use with MicroDesign 2 and other programs.

A 'stand alone' package with a good selection of fonts and typefaces, text and borders can be entered directly onto a ProSCAN page and Graphics can be edited. ProSCAN supports 9 pin, 24 pin and Laser printers, it can be used with Stop Press, Newsdesk International and MasterScan. Almost any flat image can be scanned, giving high quality reproduction at up to 400 dpi, with control of brightness, contrast, grey tones and texture (dither & stipple). Compatible with Flipper.

"Sets the PCW up as a serious DTP tool." "Excellent value, excellent product".

8000 Plus "Product of the Year 1990"

Technical

Layouts...Schematics.

Circuit

Printed

ters...Pricelist

Layouts...Post

Plumbing

..(£140.00 + VAT) = £164.50

#### **OTHER SOFTWARE**

# Printer Support Pack

For LocoScript 2, most printers and any PCW

Available soon, Available soon, a suite of office programs comprising: Database, Spreadsheet, Word Processor and CP/M to MS.DOS to CP/M File Transfer. Supplied on high density 3" or

PCW Works (State 3" or 3.5" Disk)......(£41.70 + VAT) £49.00

This sophisticated, User Friendly (menu driven) program is compatible with the SCA range of Hard Disk Drives and RamPacs and, given adequate memory, can flip between **UP TO EIGHT ENVIRONMENTS**. Flipper 3 requires at least 512K of memory. A RamPac is required when used with MicroDesign 2 or Mini Office..........(£29.75 + VAT) = £34.95

## Foreword

.(£38.26 + VAT) = £44.95 A word pre-processor

Disk Recovery Program from Moonstone Computing ...... 629.95

Leaflets---Letterheads---Magazines---Manuals

# Really Useful things...Brochures...Business Cards...Cartoons....Catalogues....

# 3½" Disk Drive



FOR THE PCW 8256 AND PCW 8512

#### NEW, IMPROVED VERSION OF OUR BEST SELLING DISK DRIVE

Available in October, our remarkable new Internal disk drive will be the most sophisticated and versatile 3.5 inch disk drive kit available for the PCW 8256/8512. Why? Because it will be electronically switchable from Drive B to Drive A and vice versa. Whichever disk drive you first put a disk in will automatically become Drive A. Nothing new in that, you say. But wait a minute, the 3.5 inch disk drive will not become a common or garden 180K drive A but with the appropriate software will give a full 720K storage, equivalent to the PCW 9512. And they said it couldn't be done! Coupled with this technological breakthrough will be our secret ingredient, to be revealed next month!

\* The price, to be announced in October, will be VERY competitive.

Please send a S.A.E. for further information.

# RamPac Compatible with new Flipper 3

The SCA RamPac is the first successful Memory Expansion above 512K that does not invalidate any PCW warranty. Only RamPac is approved by Locomotive Software. RamPac simply plugs onto the back of any PCW and immediately increases the capacity of Drive M by either 512K, 768K, or 1.5mB. It is compatible with MicroDesign 2, Flipper and most PCW programs. Existing owners of SCA 512K RamPacs can expand their memory to 768K themselves with our DIY Kit. Now you can copy a 720K disk in one operation!

| RamPac 512K Memory Expansion          | (£89 + VAT) = £104.57  |
|---------------------------------------|------------------------|
| RamPac 768K Memory Expansion          | (£109 + VAT) = £128.08 |
| RamPac 1.5Mb Memory Expansion         | (£189 + VAT) = £222.08 |
| DIV 512K to 768K RamPac Evnansion Kit | (£22 08 + VAT) =£25 95 |

## **256K MEMORY UPGRADE**

Upgrade your PCW 8256 internal memory to 512K with our best selling kit. Almost an essential for MicroDesign 2, LocoSpell and disk copying. Installation really is straightforward. Thousands of satisfied customers.

Simple instructions for the inexperienced. We supply top quality plug-in chips (no soldering) which are jig preformed for ease of insertion - NO BENDING REQUIRED - plus a 'Practice' chip. Simply "Plug in and Go".

PCW 8256 256K Memory Upgrade Kit to 512K ......(£14.43 + VAT) = £16.95



# PRO 8256



At last you can add a Memory Expansion AND a Serial/Parallel Interface to your computer in ONE BOX that simply plugs on the back of your computer! The SCA PRO 8256 is suitable for any PCW Printer connection and Data Transfer. The built-in 256K Memory Expansion can be further expanded.

SCA PRO 8256 Interface with 256K Memory Expansion .(£75 + VAT) = £88.13 With 512K Memory (£95+) = £111.62 With 768K (£115+) = £135.12

| PRO 8256 Interface with 256K Memory Expansion. | (£75 + VAT) = £88.13   |
|--|------------------------|
| With 512K RAM Memory Expansion                 | (£95 + VAT) = £111.63  |
| With 768K BAM Memory Expansion                 | (£115 + VAT) = £135.12 |

# Replacement Keyboard

From Teqniche, an AT style, Industry Standard Keyboard for any PCW or PcW, simply plugs into the port used by the original keyboard, there is nothing else to do!

Physical and Mechanical Characteristics. 102 keys instead of 85; Separate cursor pad; Function keys for software; Separate Function keys; Separate numeric Keypad; Feelers on "F" and "J"; Separate pull down menu keys. Dimensions:- Width 470mm, Depth 180mm, Height 40mm.

| Despatched by insured Parcel Post | (£52.72 + VAT) = £61. | .95 |
|-----------------------------------|-----------------------|-----|
|                                   | (£55.28 + VAT) = £64. | .95 |

If you see a lower price we will beat it on the spot.

# UPGRADES FOR THE NEW PcW 9256 AND PcW 9512 PLUS

A new range of products from SCA for the new PcW only

| Centronics Interface + Cable for Printer or Fax(    | (£39 + VAT) = £45. | 82 |
|---|--------------------|----|
|   | £45 + VAT) = £52.  |    |
| PRO 9256 256K RamPac + Centronics I/F + Cable(      | (£69 + VAT) = £81. |    |
| Adaptor to connect two old model add-ons to the PcW | (+ VAT) = £17.     | 62 |

# Internal 3½" Disk Drive

# THIS IS WHAT '8000 PLUS' SAID

"Silicon City's new internal 3.5" drive for the PCW looks set to take the industry by storm....Fitting the drive was easy to carry out - and the end result looked extremely professional". (PCW 9512 - June 1991).

The new drive brings a breath of fresh air to the PCW scene...when you have finished it looks great...and we can honestly say, it is far easier than you think." (PCW 8256 - July 1991).

Yes, now you really can fit a 3!" Drive B into the PCW 8256 and the PCW 9512 with our remarkably straightforward DIY Kit! No soldering, no special skills required, you only supply commonsense and a cross-head screwdriver!

THINK OF THE ADVANTAGES. ★ Professional Quality Drive ★ Costs less than a 3" drive ★ Uses cheaper, readily available disks ★ Works just like a standard 3" Drive B ★ Upwardly compatible with the new PCW with 3!" disk drive ★ Transfer data to other 3!" drive computers ★ No obsolescent technology; disks and replacement drives will be available for years to come. NB Not compatible with Isenstein Ramdrive.

Our high quality (TEAC FD235F) 1 megaByte Drive B (720K formatted, 706K under LocoScript) is fully compatible with your existing PCW software. No extra software is required. Data Transfer Software is available; see below. Simple, comprehensive Installation Instructions for DIY.

| ★ FD3.5 - 8 3.5" Internal Drive B for the 8256  | (£78.22 + VAT) = £91.90 |
|---|-------------------------|
| ★ FD3.5 - 9 3.5" Internal Drive B for the 9512  | (£78.22 + VAT) = £91.90 |
| ★ FD3.5 - 9A 3.5" Internal Drive A for the 9512 | (£80.81 + VAT) = £94.95 |

#### **EXTERNAL SWITCHABLE 3.5" DISK DRIVE**

An additional Drive B for the PCW 8512, or 8256 with a second drive. Switches electronically between internal 3" and external 31½" B Drives when you insert a disk. No unreliable mechanical switching! NB Not compatible with Isenstein Ramdrive.

★ FD3.5 - SW 3.5" switchable, additional Drive B.......(£100 + VAT) =£117.50

NB. All 3.5" Disk Drives are supplied with Transfer Software to run on a PC with 3.5" Drive. However, we strongly recommend:-

MOONSTONE 2 IN 1 PCW/PC Transfer Software for any PCW. Formats a 3.5"
Disk in MSDOS ready for a PC. When purchased with a Drive ......£25.95
★ FD4 3" Drive B for 8256 or 9512 (few only) ............(£114.89 + VAT) £135.00

#### PERIPHERALS AND ACCESSORIES

# CABLES PRINTER/FAX CABLE for PCW 8256/8512 (interface required) £9.95 PRINTER/FAX CABLE PCW 9512 £7.95 NULL MODEM CABLE 25 way Female to 25 way Female, for Data transfer between computers. Interface required £14.95 SCANNER CABLE FX9600 to ProSCAN Interface £9.95 KEYBOARD EXTENSION All PCWs £5.95 PRINTER EXTENSION PCW 8256/8512 (2 pcs) (2 Metres) £16.50 "DONGLE" Adapts export PCW to Interface, RamPac etc £17.95

#### INTERFACES

Serial/Parallel Interfaces for PCW 8256/8512 printer connection and all PCWs Data Transfer

SCA Professional. Highly regarded, full featured ......(£41.70 + VAT) = £49

SCA Professional Plus. As above plus clock/calendar ......(£50.21 +) = £59

 $\textbf{KEYMOUSE} \ \text{The ultimate mouse, with mat. Shares keyboard socket....} \textbf{£49.95}$ 

#### **SPARE PARTS**

Brand new Service Replacement Drives (No Mounting Kit)
FD1 500K (180K/side) repl. Drive A for 8256/8512 ........(£67.23 + VAT) = £79
FD4 (720K). Order either 9512 A drive, or 8512/9512 B drive.....£129

Some other spares are available from stock, or to order. Please 'phone.

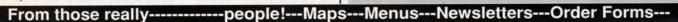
Minimum order £10. Next day Courier Delivery £9 Bold prices include VAT and UK post. Normally by return Send cheques/Money orders: or Pic/LA/Govt orders to:

## **SILICON CITY**

Mail order only: Dept 8, Postal Buildings, Ash Street, Windermere, Cumbria LA23 3EB Access/Visa orders: Telephone 05394 88707

(Coolchance Ltd)

VISA



# On the Move

Most spreadsheets need much more space than that provided by a PCW screen or the space on an A4 sheet of paper. Tony Hart shows how large spreadsheets can be easily handled on screen or on paper

|         |                    | January<br>Exp | Act     | February<br>Exp | Act     | March<br>Exp | Act    |
|---------|--------------------|----------------|---------|-----------------|---------|--------------|--------|
| Home    | Mortgage           | 330.00         | 346.00  |                 |         | 330.00       | 346.00 |
|         | Poll Tax           | 94.00          | 93.98   | 94.00           | 93.98   | 94.00        | 93.9   |
|         | Maintenance        | 25.00          | 0.00    | 25.00           | 38.13   | 25.00        | 0.00   |
|         | Insurance          | 0.00           | 0.00    |                 | 186.40  | 0.00         | 0.00   |
|         | Gas                | 50.00          | 49.90   | 50.00           | 49.90   | 50.00        | 49.90  |
|         | Electricity        | 30.00          | 30.00   | 30.00           | 30.00   | 30.00        | 30.0   |
|         | Water<br>Telephone | 25.00          | 24.25   |                 | 0.00    | 25.00        |        |
|         | Kitchen-loan       | 191.00         | 191.95  | 60.00           | 31.00   | 0.00         | 0.0    |
|         | Kitchen-loan       |                |         | 191.00          | 191.95  | 191.00       | 191.9  |
| Car     | Tax                | 55.00          | 55.00   | 0.00            |         | 0.00         | 0.0    |
|         | Insurance          | 11.48          | 10.75   | 11.48           | 10.75   | 11.48        | 10.7   |
|         | Servicing          | 20.00          | 41.40   |                 | 0.00    | 20.00        | 0.0    |
|         | Petrol/0il         | 15.00          | 55.45   | 15.00           | 33.00   | 15.00        | 11.0   |
| Food    | House              | 230.00         | 250.00  | 230.00          | 210.00  | 230.00       | 267.0  |
|         | School/Work        | 40.00          | 35.00   | 40.00           | 59.90   | 40.00        | 65.5   |
| Appls   | TV & Video         | 42.00          |         |                 | 41.40   | 42.00        | 41.4   |
|         | Washer             | 0.00           | 16.11   | 16.11           | 16.11   | 16.11        | 16.1   |
| Hols    | Package            | 0.00           | 0.00    |                 | 0.00    | 400.00       | 634.0  |
|         | Meals              | 0.00           | 0.00    | 0.00            | 0.00    | 0.00         | 0.0    |
|         | Fun                | 0.00           | 0.00    | 0.00            | 0.00    | 0.00         | 0.0    |
| Fun     | Out/Meals          | 25.00          | 34.45   | 25.00           | 0.00    | 25.00        | 13.1   |
|         | Books/Records      | 10.00          | 58.45   | 10.00           | 0.00    | 10.00        | 33.9   |
| Sport   | Golf fees          | 0.00           |         | 350.00          | 320.00  | 49.70        | 35.0   |
|         | Squash             | 5.00           | 5.00    |                 |         | 7.00         | 5.0    |
|         | Golf gear          | 10.00          | 0.00    | 10.00           | 0.00    | 10.00        | 9.0    |
|         | Piano              | 130.00         | 142.00  | 66.00           | 58.87   | 66.00        | 58.8   |
| Misc    | Misc               | 6.00           | 136.95  | 20.00           | 48.74   | 100.00       | 69.7   |
|         | Hair/Eyes/Tth      |                | 13.45   | 6.00            |         | 6.00         | 52.0   |
|         | Life Insurance     | 10.00          |         | 13.25           | 13.25   | 13.25        | 13.2   |
|         | Subscriptions      | 6.75           |         |                 | 0.00    |              | 6.7    |
|         | Clothes            | 60.00          | 65.00   | 60.00           | 88.00   | 60.00        | 94.0   |
| Totals  | Totals             | 1427.23        | 1716.79 | 1941.59         | 1886.83 | 1873.29      | 2148.3 |
| Income  | John               | 1350.00        | 1350.00 | 1350.00         |         |              |        |
|         | Marsha             | 421.00         | 603.53  | 421.00          | 515.21  | 421.00       | 478.1  |
|         | Other              |                |         |                 | 92.28   | 0.00         | 30.0   |
| Profit  |                    | 343.77         | 236.74  | (170.59)        | (79.34) | (102.29)     | (295.1 |
| Rolling | Profit             | 343.77         | 272.28  | 173.18          | 192.94  | (272.88      | (102.2 |

A full sheet printout occupies a few pages of A4 paper, plus an extra one for totals

The screens of most personal computers are fine for small spreadsheets, like working out your assets and debits, or projecting expenditure on specific items and even doing fairly complex

mathematical or statistical exercises. However, many practical applications of spreadsheets, such as financial accounts, need much more space than Mini Office's 80x32 character screen, since this only provides about ten columns and 25 rows - the rest of the spreadsheet being 'off-screen'.

For example, a home accounts spreadsheet, like the one used for this article, is not very large at 50 rows and 33 columns but is still twice the size of a PCW screen. Compare the screenshot below with the printout beside it; the screenshot shows that part of the home accounts spreadsheet which can fit on the screen, whereas the printout shows the whole sheet.

The simplest way of moving around a large sheet is to use the four 'arrow' keys which take the cursor up. down, left or right. However, this does take time and, if you regularly use a large sheet, can be frustratingly slow.

Equally, if you need to print all or parts of a sheet, then the default print-out is not the ideal method to produce exactly what you need on paper.

There are several features provided in the Mini Office spreadsheet module which give quick movement around the sheet on-screen and provide for a printout of the relevant sections of a sheet. Let's have a look at some of them.



A home accounts spreadsheet will almost certainly be wider and deeper than the screen

# TIP OF THE MONTH

Large spreadsheets, such as house or business budgeting spreadsheets are often built up carefully over a twelve month period. The amount of detail which needs to be recorded is often quite phenomenal.

It is essential, therefore, that proper back-up routines are maintained. Nothing can be more frustrating and time consuming than having to enter large amounts of data all over again.

The message is, always ensure that you make regular back up copies of your spreadsheet to protect yourself against the loss of data through faulty discs, faulty disc drives, wear and tear, or carelessness at the keyboard!

#### **METHOD ONE - DIRECT GOTO**



The top left hand area of the screen, showing the GOTO Tag function being carried out. All you do is to type in either the cell number, say Z56, or the cell name, say 'holiday total' and the cursor will go there automatically

The fastest method of moving to a specific cell or area in a large spreadsheet is to use the Direct GoTo command. You have two options. Firstly, to specify the cell you want to go to - e.g. C20 or, secondly to go to the name, or 'tag' of the cell. e.g. 'Car'. Both methods use the [ALT]/G GoTo function. Firstly, to go directly to a cell let's say B33:

\* [ALT]/G GoTo function

Type B33 The cell to go to

\* [ENTER]. Do it!

The cursor will then move directly to that

Secondly, to go to a named cell. In a large spreadsheet it's unlikely that you'll know the cell location of the values you wish to move to, so moving to a cell by giving it a name or 'tag' is almost certainly the best method

Before you can do this you have to tag the cell with the relevant name using the [ALT]/T function. Let's say that you wanted to tag the cell 'House' in this home accounts spreadsheet.

The sensible thing to do is to make the tag the same as the actual text string, as follows:

\* Cursor to cell 'House' The cell to be 'tagged'.

\* [ALT]/T The tag function

\* Type 'House' Name the cell

\* [ENTER] Do it!

Now to move to that cell from anywhere in the spreadsheet:-

\* [ALT]/G

\* Type 'House'

\* [ENTER]

Our screenshot shows the "GOTO Tag" command being carried out.

### **METHOD TWO - BIG JUMPS**

Probably half of the cursor moves made while using a spreadsheet are to either check totals, in the bottom rows or right hand columns, or check your position in the large sheet by looking at the top row and left column. These are the 'edges' and 'corners' of the sheet. The fastest way of moving around a large sheet is to use the commands that take the cursor immediately to these locations. These are:

\* [SP.CHK] and [ALT]/[SP.CHK] to take the cursor to the top-left (Home) and bottomright cells respectively. The bottom right hand cell is typically where a grand total

last back-up or print out date.
\* [PARA] and [UNIT] go to the bottom and top cell of the current column.

spreadsheet. The top left cell is where you could keep an important action, like the

would be stored for a budgetary

\* [EOL] and [LINE] move the cursor to the end and beginning of the current row.

#### **WINDOWS**

Windows are an easy way of breaking up, or condensing, a spreadsheet into sections (windows) for ease of display and printing. The ideal windowing on the home accounts spreadsheet used in the example, is to

break it up into three-month or quarterly windows. For example, to create Window 1 for the first three months, do the following:-

\* [SP.CHK] Home the cursor
\* [DOC] Select Window 1
\* [f8] Select window rows

You'll now be prompted to select the required rows for the window (see the screenshot on the left).

- \* Hit [RETURN] followed by the down arrow until all the relevant rows have been included.
- \* [f8] complete row selection
- \* [f6] Select window columns

Now hit [RETURN] followed by the rightarrow until all the relevant columns from 'Jan' to 'Mar' have been included in the window.

\* [f6] completes column selection. Windows are then selected using the [DOC], or [SHIFT]/[PAGE] key. So, from the normal spreadsheet, [DOC] will display window 1, [DOC] again will display window 2, (see the right hand screenshot) and so on, until window 7 when the cycle will start again.



Above: Here, the user is being asked to select the required rows for the window being created. Below: Window 2 selected with [DOC]



#### **FIXING THE HEADERS IN WINDOWS**

Another problem with large spreadsheets is that when you access an area away from the top left side of the sheet then you lose a view of the row and column headers. As you might expect, Mini Office has a very useful feature that helps you to overcome this - namely the 'Fixed headers' function. When fixed headers are set, then no matter where you jump, scroll or move through the sheet, the top row



left column will stay fixed to the screen. To put fixed headers in operation do the following: Select 'Alter spreadsheet' from the main menu; select 'windows' from the 'Alter spreadsheet' menu; select 'fixed headers' from this menu then use the [ENTER] key to choose whether you want both column and row headers fixed, or either one, or none at all. Press [EXIT] twice to go back to the main menu.

### **FINISHING TOUCHES - PRINTING**

Once a spreadsheet has been created and is in regular use, it is unlikely that you'll want to print it off more than once per week - and perhaps more typically, once per month.

However, in the case of a large spreadsheet (for example, one that is not just larger than a PCW screen, but is also much larger than a single A4 page) then a more organised approach to printing is required.

If you simply print a large spreadsheet without making any changes to the default printer settings, then you'll get a number of 80 column sheets printed until the final column and row are done. With this method, it will not be easy to interpret the values and totals.

#### **Printing windows**

For the larger spreadsheet, Mini Office's 'Print window' feature is ideal.

With this command you can output any of the previously selected windows direct to the printer as a single spreadsheet. Thus, for the home accounts spreadsheet, you could have four separate sheets printed for the four separate quarters of the year. You could have a separate page for all four quarterly totals, plus an annual result.

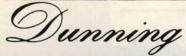
If you wished to print just the first quarter's results, e.g. Window 1 (as shown in the printout), do the following:

- \* Press [DOC] until Window 1 is displayed.
- \* Select the 'Print spreadsheet' option
- from the spreadsheet menu. [ENTER]
- \* Select the 'Print window' option from this list and you'll be informed which window will be printed. (It is always the window which you currently have selected on the spreadsheet).
- \* 'P' to print the window

Note that for users with dot matrix printers, there are optional print types available, such as NLQ (Near Letter Quality), draft and condensed.

Window 1, the first calendar quarter of the home accounts spreadsheet, has been selected and then printed out

|                 |  | Jan-Mar | Apr-Jun  | Jul-Sep  | Oct-Dec | Year<br>Exp | Year<br>Act |
|-----------------|--|---------|----------|----------|---------|-------------|-------------|
| lome            | Mortgage   |         | 1120.00  | 1161.00  | 1161.00 | 3960.00     | 4480.00     |
|                 | Poll Tax   | 281.94  | 308.22   | 308.22   | 308.22  | 1152.00     | 1206.60     |
|                 | Maintenance  | 38.13   | 267.59   | 207.50   | 377.89  | 350.00      | 891.11      |
|                 | Insurance  | 186.40  | 0.00     | 19.80    | 19.80   | 229.60      | 226.00      |
|                 | Gas  | 149.70  | 146.80   | 152.70   | 185.70  | 660.00      | 634.90      |
|                 | Electricity  | 90.00   | 90.00    | 112.00   | 123.00  | 360.00      | 415.00      |
|                 | Water  | 24.25   | 79.95    | 79.95    | 79.95   | 300.00      | 264.10      |
|                 | Telephone  | 31.00   | 42.22    | 43.32    | 66.19   | 240.00      | 182.7       |
|                 | Kitchen-loan   | 575.85  | 575.85   |          | 1586.40 | 2235.56     | 3313.9      |
|                 | KI CCHEII- IOHII   | 0.00    | 0.00     | 6.58     | 68.12   | 5.00        | 74.70       |
| ar              | Tax  | 55.00   | 0.00     | 55.00    | 0.00    | 110.00      | 110.0       |
| ar              | Insurance  | 32.25   | 32.25    | 32.25    | 34.95   | 137.76      | 131.7       |
|                 | Servicing  | 41.40   | 20.00    | 198.63   | 127.83  | 240.00      | 387.8       |
|                 | Petrol/0il   | 99.45   | 63.10    | 64.00    | 65.25   | 270.00      | 291.8       |
|                 | Petrol/Oll   | 99.43   | 03.10    | 04.00    | 03,23   | 270.00      |             |
| ood             | House  | 727.00  | 760.00   | 710.00   | 870.99  | 2854.00     | 3067.9      |
|                 | School/Work  | 160.40  | 139.00   | 85.00    | 90.00   | 500.00      | 474.4       |
| ppls            | TV & Video   | 124.50  | 124.20   | 124.20   | 146.15  | 496.00      | 519.0       |
|                 | Washer   | 48.33   | 58.43    | 48,11    | 14.10   | 162.43      | 168.9       |
| lols            | Package  | 634.00  | 760.00   | 850.00   | 58.00   | 1210.00     | 2302.0      |
|                 | Meals  | 0.00    | 0.00     | 36.23    | 45.03   | 400.00      | 81.2        |
|                 | Fun  | 0.00    | 19.54    | 126.98   | 0.00    | 575.00      | 146.5       |
| un              | Out/Meals  | 47.64   | 123.44   | 235.26   | 264.61  | 375.00      | 670.9       |
| 1777            | Books/Records  | 92.41   | 28.80    | 82.55    | 38.00   | 120.00      | 241.7       |
|                 | The state of the s | 0.00    | 0.00     | 0.00     | 0.00    | 0.00        | 0.0         |
| Sport           | Golf fees  | 355.00  | 105.00   | 35.00    | 0.00    | 539.70      | 495.0       |
| port            | Squash   | 16.00   | 59.00    | 0.00     | 0.00    | 73.00       | 75.0        |
|                 | Golf gear  | 9.00    | 41.81    | 94.45    | 108.10  | 138.00      | 253.3       |
|                 | Piano  | 259.74  | 187.71   | 160.61   | 128.61  | 718.00      | 736.6       |
| fisc            | Misc   | 255.41  | 387.51   | 50.50    | 151.71  | 815.00      | 845.1       |
| 1200            | Hair/Eyes/Tth  | 78.90   | 82.37    | 103.83   | 177.06  | 238.00      | 442.1       |
|                 | Life Insurance   | 39.75   | 39.75    | 44.25    | 44.25   | 160.25      | 168.0       |
|                 | Subscriptions  | 13.50   | 13.50    | 13.50    | 18.50   | 81.00       | 59.0        |
|                 | Clothes  | 247.00  | 290.00   | 431.33   | 348.80  |             | 1317.1      |
| Totals          | Totals   | 5751.95 | 5966.04  | 6248.60  | 6708.21 | 20746.30    | 24674.8     |
| Income          | John   | 3895.00 | 4229.00  | 3865.00  | 4391.65 | 16200.00    | 16493.00    |
| STATE OF STREET | Marsha   |         |          | 1635.30  |         |             | 7066.84     |
|                 | Other  | 122.28  | 113.00   |          | 224.99  |             | 578.2       |
| Profit          | Profit   | (137.76 | ) (18.38 | )(630.30 | 80.52   | 1284.70     | (536.69     |



# COMPUTER SERVICES

Dept 8, Unit 13c Sunrise Business Park, Blandford Forum, Dorset DT11 7TE

All prices INCLUDE delivery. Just add VAT at 17.5%. Cheques/PO's with order or phone our credit card hotline before 3pm for same day despatch (subject to availability) by 1st Class post or carrier for next day delivery (U.K. Mainland)



(0258) 480660

VISA

## RIBBONS

|                             |            | 2        | per ribb |       |
|-----------------------------|------------|----------|----------|-------|
| AMSTRAD                     |            | 1        | 2+       | 5+    |
| 8256/8512 longlife          | F          | 3.44     | 3.27     | 3.10  |
| 8256/8512 Colours           | F          | 4.30     | 4.09     | 3.87  |
| 8256/8512                   | MS         | 3.44     | 3.27     | 3.10  |
| 9512 longlife               | F          | 3.44     | 3.27     | 3.10  |
| 9512 Colours                | F          | 4.30     | 4.09     | 3.87  |
| 9512                        | MS         | 2.95     | 2.80     | 2.66  |
| DMP2000/3000/3160           | F          | 3.34     | 3.17     | 3.01  |
| DMP4000                     | F          | 4.70     | 4.47     | 4.23  |
| LQ5000                      | F          | 5.28     | 5.02     | 4.75  |
| Colours=Blue, Red, Green, B | rown (Fabr | ic only) |          |       |
| AND ALSO                    |            |          |          |       |
| Brother M1009/1224          | F          | 3.47     | 3.30     | 3.12  |
| Brother M1509/1709          | F          | 4.95     | 4.70     | 4.46  |
| Citizen 120D/Swift 24       | F          | 3.44     | 3.27     |       |
| Commodore MPS801            | F          | 3.34     | 3.17     | 3.01  |
| Commodore MPS1230           | F          | 3.43     | 3.26     | 3.09  |
| Epson MX/RX/FX100           | F          | 3.95     | 3.75     | 3.56  |
| Epson LX80/86               | F          | 2.47     | 2.35     | 2.20  |
| Epson FX/MX/RX80            | F          | 3.44     | 3.27     | 3.10  |
| Epson LQ800/400/500         | F          | 3.64     | 3.46     | 3.28  |
| Epson LX400/800             | F          | 3.44     | 3.27     | 3.10  |
| Epson LQ2550                | F          | 5.30     | 5.04     | 4.77  |
| H.Packard D/Jet Cart        |            | 14.80    | 14.43    | 14.06 |
| NEC P2200/P2+               | F          | 4.95     | 4.70     | 4.46  |
| NEC P6+/P7+                 | F          | 5.34     | 5.07     | 4.81  |
| Olivetti DM100/200          | F          | 3.43     | 3.26     | 3.09  |
| Panasonic KXP1080-83        |            |          |          |       |
| 1090-92, 1124, 1180-90      | F          | 4.00     | 3.80     | 3.60  |
| Panasonic KXP1524-40        | F          | 6.90     | 6.56     | 5.21  |
| Seikosha SP1200             | F          | 3.44     | 3.27     | 3.10  |
| Star LC10                   | F          | 3 44     | 3.08     | 2 92  |

 Star LC200
 F
 3.44
 3.08
 2.92

 Star LC24-10/24-200
 F
 3.50
 3.33
 3.15

 Star ND/NR/NX15
 F
 5.71
 5.42
 5.14

 F=Fabric
 MS=Multistrike

 We have ribbons for 1000's of printers - if yours isn't listed, give us a call!

# **NEXT DAY DELIVERY**

#### DISKS

|                      | £ per disk |      |      |  |
|----------------------|------------|------|------|--|
|                      | 10         | 50   | 100  |  |
| 3" CF2 Amsoft        | 1.55       | 1.42 | 1.35 |  |
| 3.5" DSDD unbranded  | 0.59       | 0.53 | 0.48 |  |
| 3.5" DSDD KAO brand  | 0.89       | 0.82 | 0.77 |  |
| 3.5" DSHD unbranded  | 0.95       | 0.89 | 0.82 |  |
| 3.5" DSHD KAO brand  | 1.62       | 1.49 | 1.39 |  |
| 5.25" DSDD unbranded | 0.39       | 0.34 | 0.29 |  |
| 5.25" DSDD KAO brand | 0.65       | 0.59 | 0.51 |  |
| 5.25" DSHD unbranded | 0.59       | 0.54 | 0.49 |  |
| 5.25" DSHD KAO brand | 0.99       | 0.91 | 0.83 |  |
|                      |            |      |      |  |

## CONTINUOUS PAPER

| (M) = Micro p | per box | eages<br>1 | £ per box | 5+    |
|---------------|---------|------------|-----------|-------|
| 11 x 9.5      | Qty     |            |           |       |
| 60GSM (M)     | 2000    | 15.95      | 13.83     | 12.70 |
| 70GSM (M)     | 2000    | 16.95      | 14.83     | 14.30 |
| 80GSM (M)     | 2000    | 18.25      | 16.13     | 15.55 |
| 90GSM (M)     | 1000    | 14.33      | 11.71     | 11.18 |
| 2 Part NCR    | 1000    | 20.18      | 18.06     | 17.48 |
| 11.66 x 9.25  | (A4)    |            |           |       |
| 70GSM (M)     | 2000    | 18.65      | 16.53     | 15.95 |
| 80GSM (M)     | 2000    | 19.85      | 17.73     | 17.15 |
| 90GSM (M)     | 1000    | 14.97      | 12.35     | 11.77 |
| 2 Part NCR    | 1000    | 29.30      | 27.18     | 26.60 |
| 11 x 14.5     |         |            |           |       |
| 60GSM         | 2000    | 20.05      | 18.24     | 17.45 |
| 70GSM         | 2000    | 21.75      | 19.94     | 19.25 |
| 2 Part NCR    | 1000    | 26.18      | 25.37     | 23.78 |

### SAVE THOSE RIBBONS!

RE-INK your own ribbons the new 'Ozone Friendly' way. One can of 'RE-INK' will do up to 30 PCW ribbons. Suitable for all black fabric.....£11.02

#### .....AND ALSO

| 2                         | £                          |
|---------------------------|----------------------------|
| Copy Holder from 9.45     | 5 3" Disk Boxes (60) 10.96 |
| Printer Stands from 8.95  | 5 Mouse mat 4.30           |
| Screen filters from 12.45 | 5 Mouse house 2.58         |
| 3" Drive cleaner 4.30     | Envelopes POA              |
| 3" Disk Boxes (30) 8.48   | 3" Disk Labels (200) 4.42  |

#### COMPUTER LABELS

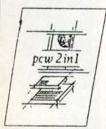
AVERY LABELS - The best! Fanfold with tractor feed holes

|     |                                    | 1000+ | rice per 10<br>5000+ | 10000+ |
|-----|------------------------------------|-------|----------------------|--------|
|     |                                    | £     | £                    | £      |
| 23  | /4 x 15/16                         | 4.25  | 3.04                 | 2.68   |
|     | /4 x 1 7/16                        | 5.18  | 3.79                 | 3.37   |
| 31, | /2 x 15/16                         | 4.55  | 3.26                 | 2.88   |
| 31  | /2 x 1 7/16                        | 5.64  | 4.56                 | 3.87   |
| 31  | /2 x 1 15/16                       | 8.18  | 6.00                 | 5.44   |
| 4   | x 15/16                            | 5.34  | 3.49                 | 3.10   |
| 4   | x 1 7/16                           | 6.39  | 4.50                 | 4.05   |
| 4   | x 1 15/16                          | 8.19  | 6.05                 | 5.47   |
|     | also have a wic<br>uding disk labe |       |                      |        |

Star LC200

# Two Programs EVERY PCW should have!





# NEW!

3.80 6.56 3.27 3.08

3.08 3.33 5.42

6.90 3.44 3.44 3.44 3.50 5.71 3.60 5.21 3.10 2.92

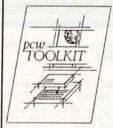
2.92 3.15 5.14

pcw-2in1 Version 2 is now the ultimate Disc Manager for the PCW. Automatically handling both PCW discs and those from an IBM-PC or compatible, you can use 2in1's windows and cursors to

move around Discs and Groups quickly and easily, marking any number of files for copying or deletion with a single keystroke, on either type of disc.

pcw-2in1 Version 2 runs on all PCW models, will format or verify both PCW and IBM-PC discs, and even lets the PCW9512 use PCW8256 CF2-type

pcw-2in1 costs £29.95, or comes FREE with a 3.5" second drive for PCW8256/9512 at just £109.95 (includes full cabling and instructions).



pcw-ToolKit Version 2 is the leading disc recovery program for the Amstrad PCW. Specially designed, it makes full use of the PCW's screen and keyboard to allow anyone to recover damaged discs and data easily.

Many of the commonest disc faults can be repaired by pcw-ToolKit almost automatically. Would you wait for a fire before getting an extinguisher? Buy a copy of pcw-ToolKit now and find out what it can do before you next get that "Missing Address Mark"!

pcw-ToolKit costs just £29.95 How much are YOUR files worth?

#### Also available :

pcw-MFU Use other CP/M, PC and BBC discs on the PCW8xxx £49.95

Blank Discs:

TEN High-Quality, Branded 3.5" discs in library box £11.95 TEN Amsoft/Maxell 3" discs £19.95

Please ask for further details and our full catalogue of PCW Software and Disc Drives. All prices shown include V.A.T. and delivery within the U.K. except where otherwise stated. VISA/ACCESS accepted. Foreign enquiries welcome. E&OE

# comput

Unit 14 Strathclyde Business Centre Clyde Street CLYDEBANK G81 1PF Tel. 041 - 941 - 3120

# 8000 PLUS SMALL ADS!

LASER PRINTING Locoscript 25p/p Microdesign 2 etc 50p/p

TYPESETTING FROM £1.50P/P SCS, 66a Eastgate, Hornsea, HU18 1LW. Tel: (0964) 535933 6 days till 8pm

CONVERSION disk/tape, publishing, typing, 071-231 1376

UPGRADING TO PC?
Data transfers CPC/PCW/CPM/BBC/IBM
Macintosh - 3\*/3.5\*/5.25\* and Laser
printing. Details (sae please) MAPEJ (8),
Meadow View, Quinta Crescent,
Weston Rhyn, Oswestry, Shropshire,
SY10 7RN. Telephone: (0691) 778659.

> DISK TRANSFER Special offer from £3.95 (File conversion 10p) SCS, 66a Eastgate Hornsea, HU18 1LW. Tel: (0964) 535933

LOCOMAIL - LOCOFILE Programming service. (Invoicing programs a speciality). Contact Hazel Underwood (0234) 853404

dATAdIARY (11.91-11.92) & Pocket dATAdATE (Dates day-by-day) £19.95 each. Year's supply, Loco2 (includes LocoChar designs).
A 4 IdEAS, 66 Curzon Street, Calne Wilts, SN11 ODL

MOLESEY EDUCATION Locoscript tuition on PCW's and PC's nationwide 081-941 1364

MATHSKIT For 'A' level and GCSE. Graph plotting, numerical methods, national curriculum assessment and much more. 8256/8512 only. £20 or SAE for details.

I. Snape, 50 St. Nicholas Drive, Hornsea, N. Humberside. NEED HELP?

Personal tuition, hardware upgrades and software supplied and installed, new PCW's set up. Available in North West England. Postal delivery outside the N.W. John Miller 061-799 1878

PRINTER RIBBON RE-INKING from £1.30, see our display ad. Eyemouth, Berwickshire, TD14 5AP.

**ISENSTEIN 512K RAMCARD** c/w manual and software, as new, £60 + VAT.

Aldous, South Lane Farm, Moorsholm, Cleveland, TS12 3JE. (0287) 660515

PCW8256
fully upgraded 8512 880k RAM, SCA professional interface, Gnome stand, MicroDesign 2, Locoscript v2.28, Masterfile 8000, Money Manager, Cracker 2, Masterscan, Datafax. All manuals £400. (0203) 329346

PCW9512

plus auto sheetfeeder, extra printer wheels, ribbons, extension cable. Manuals plus Mini Office Professional and lankey Typing Course, 20 x 3" disks, 3 storage boxes, MJC dustcovers, £325. Phone (047485) 2933

RS232 INTERFACE £25, Star LC10 printer £85 (boxed), StopPress and mouse £25, Microdesign II £25, Masterscan and software £20, range of Astrocalc software including handwriting analyser, all barely used (0283) 815321

PCW 8512 LOCOSCRIPT 1 & 2 Epson NLQ 1050 printer, Stop Press, AMX Mouse, Interface, Protext, Mini Office, Money Manager, Supertype, disks, games, magazines, dust covers £600.

Twickenham 081-898 9448 evenings

PCW8512 PLUS HP-DESKJET 500.

The ideal combination for quality mailshots and DTP. Included free: all ocomotive software, Microdesign II and AMX-mouse and lots more software, blank disks, serial parallel interface, £649 o.n.o. 071-223 4415

**AMSTRAD CPS8256** 

serial + parallel interface, boxed, £18: over 50 3\* disks, newish 85p each: Arnor 'C' £10, Maxam II £10, BPCL £5: all originals + manuals; post-paid.

Phone Peter on Norwich (0603)

748338 anytime

**BASIC ACCOUNTS** 

purchase ledger programs £10 each. Ideal for small business/home use. Send

s.a.e. or cheque to:
A.B. Cuthbert, 150 Durham Road,
Spennymoor, Co. Durham, DL16 6SL

PCW8256

original software (not copied) Market Merlin (stockmarket) £12 Biorhythms/compatibility £6.
Poolsmaster (forecasting) £7. Tarot cards £12. Post free. 32 Trafalgar Court, Uffculme, Cullompton, EX15 3XL. Telephone: (0884) 841765.

PCW8512
Mini Office, DTP, Money Manager Plus,
Typing Tutor, Margin Maker, printer extension, 8000 Plus magazines, acoustic hood, dust covers, £320.
Phone: (0703) 767474 (Southampton)

**PSION ORGANISER LZ64 3 32K** Datapacks formulator, spell check, mains adaptor, formattor, manuals, £250 o.n.o. K. Taylor, Kettering (0536) 516552.

PCW 8512 Locoscript 1, Locoscript 2, Locofile, Locomail, Supercalc, Money Manager, Microdesign 2, Touch and Go. Mouse, interface, Chess, Bridge, Margin Maker, buyer collects, £300 complete.

(0604) 770257 (Northants)

**COMPLETE SET OF 8000 PLUS** 

in binders - offers please. Also Bridge, Chess, Scrabble, Tetris, Batman, At Last, Locoscript 2, Flipper, Locospell, Locofont, Money Manager, Mini Office, used disk

Call Ken on (0703) 769123

PCW9512 USERS

25 years of the top singles hits from 1960-85 on 3" disk. Answer pop ques-tions in seconds, £12.95 to: S. Grimwade, 35b Friars Street, Sudbury, Suffolk, CO10 6AG

PCW 8512

v.g.c., dust sheets, printer, extension leads, Comstax desk, Money Manager, £370. Can deliver Kent, Sussex. (0227) 368507.

VIDEO DIGITISER £65, scanner Masterpaint £30, AMX mouse interface £25, Microdesign II £30, 512K RAMpack £50, PCW Toolkit £15, Locofont 2 £10, 24 pin drivers £10, all boxed, manuals.

Phone 021-455 7849

9512 TWIN DRIVE
Locoscript 2.29, Mini Office Professional £250 AMX mouse £35, BJ10E bubble jet plus sheet feeder £225, Microdesign DTP £25, manuals. Offers considered. Locoscript 1.5PC £60.
Burford (0993) 823060

AMSTRAD RS232C INTERFACE cable, manual, £30. The Cracker II, inc. manual £20 Coursewinner, boxed £10. Back issues of 800 offers, 1-39 and 41,

perfect, offers.
Phone Richard 071-738 3881

**MASTERFILE 8000** database for PCW original disk and manu-al, £19.00. Also Amsoft CF2 disks -brand new - £1.00 each.

INKJET PRINTING for professional results, Microdesign 60p/page; Locoscript 2 15p/page. FREE samples. 081-641 6454

Telephone: (0776) 3843

SMALL ADS RATES

Private ads cost £7.50 for up to 30 words. (This rate only applies to readers wishing to sell their own hardware or original software or to pass on a message to other 8000 Plus readers)

All other ads are now classified as Trade

Advertisements and are charged at £1 per

word. (Max 30 words).
8000 Plus reserves the right to refuse any ad which is deemed to be a Trade Advertisement but which has been paid for as a Private Ad.

To place an ad just fill in this application form

and send it to us with the correct payment. We will then place the ad in the next available issue (published 2-7 weeks after we receive your order). If you wish your address or telephone number to be featured in your advert it must be included in the grid below (one word per space).

| Order form Send to: 8000 Plus Small Ads, Future Publishing, Beauford Court, | , Bath BA1 2AP |
|---|----------------|
|---|----------------|

| Name                      | My advertisement is a Private/Trade* Advertisement and I enclose payment for £ * delete as applicable |  |  |
|---------------------------|---|--|--|
| Address                   | I wish to pay by Cheque/Postal Order/Access/Visa  |  |  |
|                           | Credit card number  Credit card expiry date   |  |  |
| Telephone                 | Please make cheques and POs payable to Future Publishing I  |  |  |
|                           |   |  |  |
|                           |   |  |  |
| Development of the second |   |  |  |
|                           |   |  |  |

# Hints & Tips

- Step 1: The keyboard contains a number of small items, such as keys, springs, key stems and screws. It is worth marking up a large piece of paper in order not to get them mixed up or lost. Assign a section to each group of components.
- Step 2: There are far more holes on the board than there are screws. Because of this, it is easy to get confused about which holes the screws should go back into. An easy answer mark the ones which contain screws with an arrow!
- Step 3: The cable is one of those parts of the unit which collects a large amount of grime. Don't forget, then, to give it a good clean the dirt seems to get deeply ingrained using the cleaning fluid and a cloth. Make sure, though, that none of the fluid. comes into contact with the circuit board.
- Step 5a: We found the best way to remove each keytop was to slip the tip of one finger under one of the top corners of the key, and lever it out. Some of them are rather tough, though, and may need a bit of gentle persuasion.
- Step 5b: If the keys get out of order as you pull them off, don't worry. Simply find a picture of the keyboard (there are a couple in advertisements in this issue).

# Clean Teqniche

Martin Le Poidevin shows you how to keep one of the best of the PCW add-ons – the Tequiche keyboard – in tip top condition

he Teqniche keyboard received a rare accolade in its 8000 Plus review – a mark of 19 out of 20. It is an essential tool for many PCW owners. And like all tools it needs looking after.

A little time spent every few months can save much frustration – not to mention the expense of a new keyboard. The equipment you will need is quite

simple. Firstly, a Philips cross-head screwdriver. The one we found best was a 3mm 'watch-maker's' screwdriver, as this fits the screw-heads of the small circuit board screws without causing any problems (see step 2).

You will also need some cleaning fluid (cigarette lighter fluid also proved excellent), some cotton buds and a cloth for the more stubborn stains. It would also be worth having a soft pencil handy.

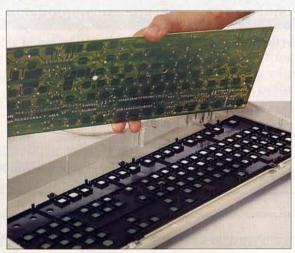
A couple of words of caution before you leap in, though – firstly, check your warranty arrangements carefully, and ensure that opening the keyboard will not invalidate them; secondly, since your keyboard is quite new, don't be tempted to open it too often – some of the components are fragile, and won't appreciate such intense attention!



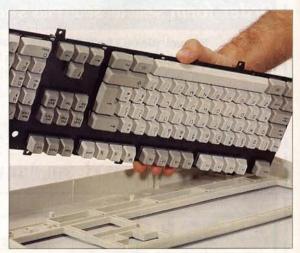
Make sure that you have plenty of space to work in. Unplug the keyboard from the computer, and move the computer out of the way – simply to make more room. Locate and remove the five screws which hold the black metal backing plate onto the unit. Put the screws together on one side. Remove the backing plate, clean it thoroughly, and put that to one side as well.



You are now looking at a large circuit board. It is attached to the rest of the unit by several small screws, each of which is marked by either a circle or triangle. Remove these and put them to one side; then undo the clips at the top and bottom of the board. It is best to do these one edge at a time – bottom, then top – and to work along from left to right.



You can now lift the circuit board out of the unit. Because of the three indicator light bulbs, you should lift it as vertically as possible, for the first half inch or so at least. The keyboard output wire will come away, too – so make sure that it is free to do so. As with all circuit boards, handle it as little as possible, and then only by the edges. Blow off any dust that has collected.



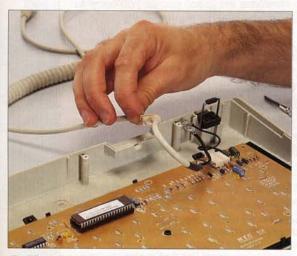
Put the circuit board to one side – perhaps on some foam, and with the green side facing up. You will now be looking at the underneath of the keys themselves. The keys are attached to a black plastic holding board. This can be taken out – simply undo the five screws which hold it, and put them safely aside. Lift the black unit out, and give the upper casing a thorough



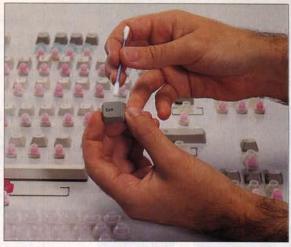
5 Now remove all the keys. Turn the unit over, so that the keys are facing you, and simply pull the top off each one. As each key top comes away, it will leave behind a plastic keypad (often several keys share the same one) and, underneath the black holding board, a pink stem, with foam and a metal foil contact on the bottom. Rescue these, and put them alongside the casing in keyboard order. Some keys also have a metal clip.



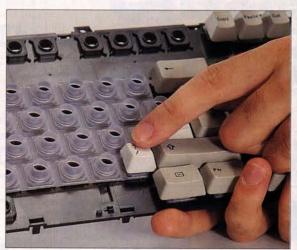
Putting the keyboard back together is the reverse of taking it apart, but much easier! Begin by refitting the keys which have metal springs. First, put the pink key stem underneath the board, then put the plastic keypad over the top. Now fit the bar of the metal spring into its slots on the board, and put the two ends into the slots on the keytop. Push the key home.



When all the keys are back in their keyboard positions, you can screw the re-constructed unit back into the upper casing. Now return to the circuit board, and very carefully manoeuvre that back into position, guiding the light fittings into their slots. Align the screw holes, push the board back into the clips, and refit the screws. Slot the output wire into place.



You can now go about cleaning the individual keys. Do this using the cotton buds and the cleaning fluid – any grime which has become ingrained will miraculously lift off. Blow or brush any dust off the plastic key pads, and give the black holding board a good clean, too – this is where most of the larger particles of rubbish will have been caught. When you have finished, leave everything to dry thoroughly.



The other keys are refitted in exactly the same manner, but omit the spring-fitting process. For these, make sure that the pink key stem is underneath the board, poking through the hole that will take the key. Position the plastic keypad correctly (it may already be in place if another key shares it). With a finger supporting the key stem underneath, click the keytop home.



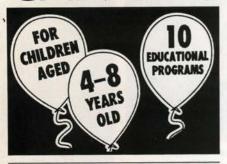
1 O Finally, refit the black metal backing plate. The first screw you should do up is the one at the top right of the unit. Make sure that the screw passes through both the ring connectors which come from the output wire and the circuit board, before tightening it up. You can now fit the other screws back into place and plug the keyboard back into the computer.

## Hints & Tips

- Step 6: It is worth taking a long time over the cleaning. Quite apart from anything else, it should ensure that you don't have to open up the keyboard again for a long time!
- Step 7a: If you wish, you can also add a squirt of switch lubricant around each of the pink key stems after you have put them back into the board. Use the tube which comes with the canister to direct the spray, letting it flow around the stem. Make sure it does not go where you do not intend it to - for instance, on to the foam part of the keystem, and wipe any excess away with a cotton bud.
- Step 7b: Keep the finger under the key as flat as possible when you are doing this – to avoid bending the silver contact foil.
- Step 8: Because the keys go in close together, it is best to follow a pattern in putting them back. Our suggestion: start in the bottom right hand corner, and work up and across the keyboard.
- Step 10: Making sure that the screw traps both the ring connectors can be very tricky. The way to ensure success, though, is to first put the screw through the backing plate, then thread the connectors onto the screw. Finally, position the screw over its hole and do it up.

# EDUCATIONAL SOFTWARE FROM DGC

# FVFN GA



# Junior Playtime

This range of ten learning aid games will encourage observation, analysis and motor skills. Compete with the computer in tests of skill and memory, against the clock and with varying degrees of difficulty.

DGC software is designed to provide as much fun as instruction, fostering faculties and abilities which can be applied to all kinds of problem-solving exercises.

Available on 3" or 31/2" disc. RRP £14.95

for money, high calibre puzzles and appealing to children of all ages.' 8000 Plus

'A range of fun-packed, educational games . . . so easy to operate, a child could use it. Which, of course, is the prime objective of the software." Amstrad PCW

MATCH THE PAIRS FIND THE LETTER **GUESS THE NUMBER** COUNT THE MONSTERS SNAKE IN THE GRASS RUNNER

MAZE JUNIOR DRAWING WORD SCRAMBLE JUNIOR SHOOTING

DGC

Software 12 Stonecroft Bradford BD2 2HW TEL (0274) 636 475

# Composit Software

The Composer's Per

Also available on IBM PC compatibles, ring for details. "Unreservedly recommended" New Computer Express.



# Sketchpad II

New Improved Version



MusicPad

The Ideal Musician's Notepad

Send for details & sample printouts or ask at your local music/computer shop

Order now! Telephone hotline

0952 595436





Composit Software Dept 8/11 FREEPOST 10 Leasowe Green, Lightmoor, Telford, Shropshire TF4 3BR

Cheques payable to Composit



VISA

# Tegniche PCW 102 keyboard



102 keys instead of 85. Separate Cursor pad. Function Keys for software. Plus many more features

# Now only £79.00

# PRINTER RIBBONS

| 8256/8512 Nylon  | £2.95 each |
|------------------|------------|
| 8256/8512 Carbon | £3.25 each |
| 9512 Nylon       | £2.20 each |
| 9512 Carbon      | £2.75 each |
| Min Order Qt     | y 3 pieces |
| (Ribbons         | only)      |

#### AMSOFT CF2 DISKS

Pack of 5...£7.99 Pack of 10 ... £14.99

Genuine Amsoft fully guaranteed.

## PCW SOFTWARE

| Locoscript 2 inc Spell      | £34.95 |
|-----------------------------|--------|
| LocoMail/LocoFile Bundle    |        |
| LocoScript 2                | £26.95 |
| LocoMail                    |        |
| LocoFile                    |        |
| Contriver Mouse + Interface |        |
| Mini Office Professional    |        |
| Touch 'n' Go Typing Tutor   |        |
| Sage Popular Accounts       |        |
| Sage Popular Invoicing      |        |
| Sage Popular Payroll        |        |
| Cracker 2 Turbo Spreadsheet |        |
| Amstrad R232 Interface      |        |

# All Prices INCLUDE VAT & POSTAGE (U.K only)

Please make all cheques payable to: PRM COMMUNICATIONS

17 Staple Tye, Harlow, Essex CM18 7LX Credit Card Hotline Number: (0279) 422846 VISA

# **PUT THAT** MANUAL DOWN AND LISTEN!

Most people find it hard to learn from the manuals, but don't realise there's a better way. Reeltime will teach you all you need to know, at a fraction of the price of a training course, all on your own computer! With instant help via the phone Hotline. there's no better way to learn.

#### PCW Courses:

LocoScript 1 & 2 CP/M Computing dBase II, SuperCalc 2 Mini Office Pro

£34.00 +vat

New: The PCW Flying

Start! Master Locoscript and CP/M - only...

£49.95 +vat

Other courses: We have a range of courses for all Amstrad computers; IBM/compatible PCs; Olivetti PCS; plus all the popular software including Lotus, SuperCalc, Word Perfect, WordStar, Ventura & Pagemaker from £34.00!



All courses by return. Prices include P&P! Send cheque to:

Head-Line Communication Limited. PO Box 22, HEREFORD, HR4 8UW

or phone 0602 603623 with Access/Visa no.

ne by-product of the 1991 silly season was a spate of circulars, many recognisably LocoScripted on the ubiquitous PCW. I suppose there's no way to prevent nutters and con-artists from buying word processors, just like the supremely lawabiding readers of this magazine....

The most irritating item was a long tract offering a very expensive book on how to cheat. Its amazing technique of "neocheating" would enable you to win at cards, rip off friends and business associates, and rule the world — all in a completely safe and undetectable way. Of course, the brochure adds, you don't have to cheat at cards. The idea is to attain inner tranquillity. Being able to steal your neighbours blind will be a mere side-effect of your new powers.

(Remember those old martial-arts adverts? "After ONLY THREE LESSONS you will be able to WRENCH OUT PEOPLE'S INTERNAL ORGANS and REDUCE THEM EFFORTLESSLY to a BLOODY PULP. Your new-found ability to MAIM, HURT and KILL should be used only in self-defence....")

A more familiar arrival was a posh, word-processed version of that old standby, the chain letter. I thought they'd died out years ago. Ah, the schoolday nostalgia of sending a nice picture postcard to the top name of the six listed, plus four plain cards to friends with an exhortation to do likewise and not break the chain. Then you waited for the glorious bounty promised by the logic of mathematics when your name rose to the top: 4 to the power of 6 or 4,096 cards, from exotic places all over the world!

#### The bottom line

Today's chains have progressed beyond the simple innocence of long ago. The example I received is full of claims that this is not a chain letter but that entirely different and legal thing, a Multi Level Mail Order Sales offer. The currency unit is no longer the humble postcard but the used £5 note. (No cheques.)

Now, when you send fivers to the previous names on the traditional list, you are supposedly buying four valuable "financial and business reports". Since these consist of at most two sides of paper, you can imagine how expensive they are to produce, and how crammed they must be with vital data.

But it's unnecessary for you to read these ludicrous texts. All you do is pay a fiver apiece for the things, and photocopy them for sale to the further suckers whom you yourself are expected to rope in. "It is legal because you are offering a legitimate product to your investors." See? In due course, as the circle of golden opportunity expands exactly like a chain letter ("imagine if everyone sent out 1,000 letter packets!"), you in turn are promised tons of fivers.

There's something slimy and repellent about the several sheets of "don't miss this great chance" evangelism which landed on my doormat. Naff testimonials from

supposed past operators of the scheme are included: why do they all quote vast profits in pounds but write suspiciously like Americans? Any guesses as to where this con originated?

Let me make some obvious comments. The first concerns a testimonial from the "originator of this plan", who is letting others into it out of sheer benevolence, having himself retired long since on claimed profits of over £4,000,000. Stop and think. If we're to believe him, every penny of that sum must have come from hopeful "investors" who paid £20 for four joke reports at a fiver each. Gosh, there must already be two hundred thousand people on this game! If each sends 1,000 further packages as recommended, there are two hundred million in circulation already. A bit late for anyone else to jump aboard....

All right, most of the build-up is a pack of lies. My second comment is for people who think a bit further and argue: "Yes, it's a scam. But if this one is just starting, I could get in now and make a quick profit before it falls apart." Possibly. But the law of conservation of mass/energy applies to money. Whether the chain letter dies out by expanding to swamp the world or by deserved shrinkage as people chuck the thing in the bin, each fiver you make is sooner or later balanced by the "investment" of somebody who won't get it back ... someone, perhaps, who believed in this nonsense as a genuine business opportunity, and can ill afford even small losses. The mere fact that you're unlikely to meet these victims of the con is no excuse.

A final cheeky thought. When I mentioned conservation laws, I didn't take into account the fact that real-world systems leak money at the seams. Just so here: all that photocopying or Loco printing, all those envelopes and (the letter insists) first-class stamps. Elementary, Watson: the originator of this game must be the one outfit which makes money from it no matter what ... the Post Office!

#### Bigger games

Over in the wonderful USA, everything is bigger and better, and this kind of scheme can be played for high stakes. One that's caused much trouble in recent years is the Aeroplane Game ... or rather, because they're Americans and don't know any better, the Airplane Game.

This is a plain (sorry) and simple pyramid scheme. I don't care to give full details, but typically the suckers join an imaginary flight as a "passenger" for \$1,500, and by recruiting new victims rise through the ranks of "flight attendant" and "co-pilot" until they reach "pilot" and receive \$12,000. For this to happen, 64 more people must have signed on at \$1,500, each needing to recruit 64 more before they collect ... and so on. Since several times the world's population will soon need to join and pay, a rude crash-landing awaits overwhelmingly many of these clowns. Am I just repeating myself? The creepy



# Citizen Chain

Dave Langford casts a watchful eye over the rising popularity of postal con campaigns

aspect of the American swindle was how it raged through the unworldly communities of what is called the New Age movement. That it was crass, immoral and doomed was evident to anyone who chose to think hard for a moment: but the open-minded suckers swarmed aboard, dazzled by "spiritual" jargon about "infinity processes" and "abundance workshops" which promised that free money could be spun out of nothing, forever.

After all, the sceptics who rudely told them the harsh facts of mathematics had been equally disrespectful about vital New Age concepts like astral channelling and reincarnation. Who would listen to horrid people like that? Who indeed.

Usually this page talks about writing. This time we've sneaked around to it from behind: as George Orwell said again and again, to write clearly you must first think clearly. Myself, I'm every bit as lazy and greedy as the next PCW owner, but I have learned to stop and think about certain things. Writing is one ("did I really mean to say that?"). Get-rich-quick schemes are another.

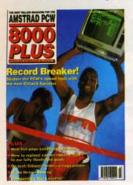
# **BACK ISSUES...**







Are you a recent reader of 8000 Plus? Or have you missed out on some of the earlier issues and want to catch up?
We have limited quantities of our back issues listed opposite.

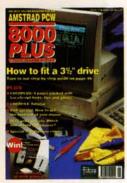






The prices include a nominal 25p postage.

Remember, all issues contain excellent TipOff sections and the selection of BASIC listings, plus the other regulars.







- 42 Which word processor should you choose? The top ten PCW games. Language learning packages. £2
- 44 How to add a 5.25" disc drive. Choosing the right accounts package. Five 24 pin printers put under the lens. £2
- 45 Fitness monitoring software put to the test. Three horse-racing predictor programs compared. How to add a 3.5" or 5.25" drive to your 9512. £2
- 47 How to clean your keyboard. Predictive software on test. Part two of our comms feature. Ten top Flipper tips to make life easier. £2
- 48 The new PCW handscanner on test. A look at the multi-user facility of the Cirtech Diamond hard disc.£2
- 49 21-point guide to Protext. Teach yourself BASIC. Deskjet printers. £2.20
- 50 Cirtech's HardPak reviewed. First part of MicroDesign tutorial. Creative Technology's Handscanner. Printer Maintenance £2.20
- 51 1990's review. Citizen's low-cost 24-pin printer. Mailmerge with Mini Office Professional.
- 52 Special Locoscript issue full of hints and tips. All the software you need to run a business. Investor II

- 53 The new SCA budget hard disc. Step by step guide to ribbon re-inking. Mini Office spreadsheet tutorial.£2.20
- 54 The Cirtech Sprinter reviewed. DIY ribbon replacement Datastore II for beginners.£2.20
- 55 How to connect the PCW to a PC. 10 step guide to printer repairs.Cannon Bubblejet reviewed. £2.20
- 56 Flipper 3 reviewed. Step by step print head cleaning. Beginner's guide to accounts. £2,20
- 57 How to fit a 3.5 inch drive to the 9512. Get the best out of your mouse. Soft Options clinic. £2.20
- 58 How to fit a 3.5 inch internal disc drive to the 8256. Locofile tutorial Five external printers for the PCW.£2.20
- 59 How the Amstrad fax machine works with your PCW. 3.5 inch drive fitting for the 8512. Step by step SuperCalc quide. £2.20
- 60 The best in PCW clip art. Step by step guide to installing Sprinter. 8000 Plus annual index. £2.20
- 61 Brand new PCW mouse reviewed; step-by step guide to keyboard cleaning; Public Domain software round-up.£2.25

# Order back issues using the subscription form opposite

# 

COMPLETE THIS FORM AND HAND IT TO YOUR NEWSAGENT

TO THE NEWSAGENT: 8000 PLUS is published by Future
Publishing and is available from your wholesaler. Please save
all your 8000 Plus shopsaves and return them to qualify for a
free draw to: Kate Hodges, 30 Monmouth St, Bath BA1 2BW

Postcode .....

# **CAN'T GET HOLD OF US?**

Recently we've been receiving calls from readers who are having difficulty getting hold of 8000 Plus. So here's the 8000 Plus guide to making certain you never have to go without the magazine again!

If your local newsagent doesn't have a copy of 8000 Plus on the shelf, try checking to see if they have any more copies in stock. Sometimes, even if they've sold out on the shelves, they'll have more issues in the storeroom. If that doesn't work, check one of the bigger newsagents such as WH Smith or John Menzies.

If you don't want to subscribe (and why not when you get all

the benefits opposite!), fill in the form below and hand it to your newsagent. Remember, every single newsagent in the country – from WH Smith to the corner shop – will be delighted to reserve you a copy each month. You can even arrange to have it delivered to your home.

Finally, if you still have no luck, call our Circulation department on 0225 442244 and tell them that you've been having trouble getting hold of 8000 Plus. Remember to let us know where you've been trying to find a copy of 8000 plus – and they will sort the problem out in no time!

# Receive either of these excellent books when you subscribe to 8000 Plus



# **Exploiting the Amstrad PCW 9512**

For users who want to use their machine as a fully blown computer, this book not only examines the PCW and its native word processor LocoScript but also explores the range of other programs available. 300 plus pages with detailed information on LocoScript, LocoMail, CP/M, LocoFile, dBase II SuperCalc 2 and Mini Office Professional.

> ential handbook for ginners and experienced users alike

ALEC RAE





Turn your PCW into a powerful design tool. Referring constantly to screen shots and demonstrations on the accompanying disk, this step-bystep guide takes you from beginner to expert. Covering both home and business applications, it is illustrated with practical and relevant examples on how to: create company logos and club badges; design headed paper, invoices and membership forms; prepare circulars and reports: design and lay out club newsletters.

# **Benefits of subscribing**

- You guarantee your copy avoid missing any vital information and advice
- You get it delivered at no extra charge save the time and trouble of having to go and find your copy every month.
- You get first refusal on all special offers normally at exclusive discount prices
- You protect yourself against inflation the price you pay is guaranteed for the duration of your subscription. Even if the cover price goes up, you don't pay a single penny more.
- You get complete peace of mind not only are you assured of your copy each month you also have a no-risk guarantee. You may cancel your subscription at any time and we will refund you for all unmailed issues.

Return the coupon below immediately or telephone our credit card hotline on 0458 74011

12 issues for just £26.95 s one of these books

|   | pido one or these book  |
|---|---|
|   | (RRP £14.95) - yours as a gif   |
| YES! Please enter/renev                             | my subscription to 8000 PLUS and send me the book I have ticked below |
| Exploiting the                                      | mstrad PCW 9512   |
| ☐ UK £26.95   | ☐ Europe £43.30 ☐ World £57.95  |
| LEASE ALSO SEND ME THE FOLLOWING BACK ISSUES (PLEAS | CURCLE) 42 44 45 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61         |
| NAME  | SIGNATURE   |
| ADDRESS   |   |
| POST CODE   | TELEPHONE NO  |
| METHOD OF PAYMENT (tick your choice)                | VISA/ACCESS CHEQUE (make payable to Future Publishing Ud)             |
| TOTAL COST CA                                       | RD NO EXPIRY DATE   |
|   |   |

Did you know?

For anyone who has

CP/M is the PCW's

never it tried out,

operating system.

Unlike LocoScript,

built in to programs

Newword for them to

Fortunately, in most

supplied as standard

with your PCW, and

is a program in its

own right.

cases, this usually

happens. CP/M is

CP/M needs to be

like Protext or

be self-booting.

# Words of a Feather

With the new PcWs hitting the scene of late, you might think that the early, traditional role of the PCW as a word processor has been left by the wayside. Not so. Tim Smith looks at three text tweaking systems

ersonal Computer Wordprocessor. That's what PCW actually stands for. You might think that this meaning has become lost beneath the hundreds of other programs available for the versatile machine. And anyway the PCW comes bundled with a more than adequate word processor in the form of LocoScript. So why would you need another?

Essentially you don't. You could quite happily stay with LocoScript and the associated Loco family of programs, for the rest of your PCWing days. But you should never forget that there are other programs out there to be used.

Many of them serve different purposes. They are less often complex and less authoritative in their structure. But this can mean, and often does, that they are quicker in use.

## The right type

Word processing sounds like a very grand term for what is essentially getting words down on a page. Surely it is simply a case of glorified typing?

Not so. How many type writers do you know which can align your text for you? How many can spell check your documents for you? And how many will allow you to move areas of text around a document? Unless they are incredibly advanced machines, probably costing more than your humble PCW in the first place, the answer to all these questions is likely to be none.

A piece of word processing software should make the act of getting the words on to the page as unlaboured as possible. It should almost be like jotting down your prose on the back of a matchbook and then being given the ability to tidy them up for professional results.

#### Don't panic!

Don't think, for one moment, that you have to change word processors from LocoScript. Just because there are others on the market does not mean that you have to use them. Especially as a beginner it is a good idea to get to grips with LocoScript. If nothing else it is free.

But it should be born in mind that different word processors, like different makes of car, have different and distinct advantages. For example you wouldn't use a Land Rover at the Brazilian grand prix, or use a Porsche to haul silage over heavy ground.

Using Tasword for example, would be ideal when jotting letters to friends, creating lists, writing outlines for reports. This article was written with Protext because of the speed of operation and the fact that no frills were needed. Newword would be ideal for someone who uses a PC with WordStar at work.

However if you wanted to produce a really smart looking document for professional presentation, then LocoScript is probably still the best one for that purpose.

The best questions to ask yourself, when starting out with word processing, are as follows: Do I need speed? Do I need to create 'good looking' documents or just get my words written? Do I need to be helped along the way by on-line help? Am I going to use this system everyday or just occasionally?

The answers to these questions will define the system you need.

All three of the word processors examined here come with there own positive points. None of them use pull down menus, and you have to pay out additional funds for them unlike LocoScript which comes with the machine. So the most important question, which is why it has been left until last, is: Do I need another word processor? The answer is probably yes.

# WHAT TO LOOK FOR IN A WORD PROCESSOR FOR YOUR MACHINE

There was a time once when a piece of word processing software comprised little more than a place to put words and save them to text files. In fact you can still find these, or even write one yourself using Mallard BASIC.

However, in this more advanced age you should be aware that there are several functions which are basic to this form of software. A brief list of these is given below.

FIND/REPLACE: This will become more and more useful the more that you use it. For example, if you are working with a colleague or friend who uses a different type of computer, a PC perhaps, which can produce ASCII (American Standard Code for Information Interchange) files you will need to remove a number of the special characters placed into the file before you can work on it. This is where FIND/REPLACE – which is sometimes called FIND/EXCHANGE comes in more than useful. Simply type in the

character(s) you wish to remove in one box, and do the same with those you wish to put in their place in the next box and the machine will tidy up the file for you.

BLOCKS: One of the main features which sets word processing apart from simple typing is the ability to move sections of text around freely. It is more than likely that you will, at one time or another, have produced a document most of which you then find to be of little use. However you might want to use one section – say a list of names or a particularly well turned phrase – in another document. The ability to save it as a block separate to the main file is more than a luxury here.

ON-LINE HELP: Yes. Help. On many decent word processors there are options for on-line help. This means that you can get aid in your task of creating great works while not having to leave the keyboard and go and look in the manual. On-line help tends to be less detailed than

what you find in the manual but it certainly makes the working process easier to get to grips with.

MAKE ASCII: The ASCII file is one of the most important of all file types to the PCW user – even if most PCW users don't know it. Every word processor, in fact every different type of machine, creates its own type of document. It adds certain special characters to the header of the file for example. If you wish to transfer files from one machine to another, or from one program to another, you have to make an intermediary file.

This is where ASCII comes in. It is, if you like, the computer Esperanto – a common language all computer's understand. The file leaves out any bolds and italics you added to your text, but the raw words are still there. Don't worry about having to strip the special codes yourself. Any program which creates ASCII files does this for you.

BOLDS, ITALICS ETC: A word

processor is not a word processor unless it allows you to add at least a few embellishments to your text. The most basic of these are the ability to put text into bold or Italics.

ALIGNING: The ability to align text to the right, left or middle saves a great deal of bother with irritating tabs.

SPELL CHECKING: PCW software

suffers a little from not having good on-line spell checking. LocoScript is in fact the only word processor available for the machine which does not require you to exit the document you are working on to some extent or another.

Also, be aware that many spell checkers or dictionaries have an irritating habit of using American spellings. It is therefore handy to have the ability to delete words from the built-in dictionary of a word processor as well as the vital necessity of being able to add words.

These are merely a few tips and hints as to what to look for in a word processor. The main points to weigh up for your personal preferences are speed of use over detail and number of functions.

#### **WHICH IS WHICH?**

# PROTEXT/POCKET PROTEXT

Arnor ● £59.95/ £29.95 ● 0733 68909

Protext and its little brother Pocket Protext have long been considered as the only really viable alternatives to LocoScript on the PCW.

Although the complex and helpful disk management screens are missing from Protext and it lacks add-on programs such as LocoFile and LocoMail, the one major advantage Protext does have is that it is fast.

Compared to the rather laboured scrolling of LocoScript, Protext is like lightning in its speed of use.

It is also very simple to get to grips with. This simplicity however should not be confused with simplicity of design or lack of options. You can mail merge, spell check and even carry out simple, arithmetical calculations using Protext. And you can do all of these with the greatest of ease.

Unlike LocoScript, getting in and out of a document does not entail pulling down menus and pressing a number of keys. All you have to do is to press the [STOP] key and you are taken from an area of screen which looks suspiciously like CP/M's command line, into the document itself. Saving a file is merely a case of typing [S] at this command line. There is is even an invaluable on-line help facility.



Protext: Highly recommended by 8000 Plus in numerous reviews. Protext is fast, friendly and full of options

All in all, Protext comes out ahead of the pack in terms of its capabilities and speed. A definite recommendation with no reservations.

# TASWORD Tasman Software ● £24.95 ● 0532 438301

Tasword has been with the PCW for more years than anyone cares to recall. Like Newword its roots lie with the PC.

In comparison to LocoScript,
Tasword is a simple program with a
limited manual. However don't let this
put you off if you have been using
word processors for some time. It is
fast in use and comes with all the basics
such as Find and Exchange, block
movement, spelling and on-line help.

One of the reasons that it has not gained a higher profile in the PCW market is lack of advertising as much as anything else. Tasman is not a large company in the same way as Arnor, PaperBack Software or Locomotive, and such it has had a harder battle to establish its word processor.

If you are looking for a no nonsense piece of software which will enable you to get words on to paper with a few frills and the minimum of fuss, then Tasword could be ideal.

As we have mentioned, the major downside to Tasword is the limited manual. This is, perhaps, not a word processor for the beginner as you will have to spend some time getting to know the software before you can use it really effectively.

Once you have invested this time, however, you will probably find that it serves you well as a basic tool.



Tasword: it's manual may well be nothing to write home about but as a good quality, basic word processor it will keep advanced user typing away happily for years. And at a reasonable price.

# **NEWWORD 2**Paperback Software ● £71.50 0245 263969

Newword will be familiar in style to users of WordStar on the PCW. If Protext and LocoScript were not fighting it out at the top for word domination, then Newword would definitely be in with a shout.

It comes with an excellent manual, clearly layed out and is easy to use. It has all the functions you want from a word processor, including speed of use.

Again, unlike LocoScript, it makes use of a keypress and command line system rather than pull-down menus. Whether this appeals to you is a matter of personal taste. But one thing which should be born in mind is that using menus does take, or even wastes, time.

It has mail merging, using saved phrases such as names, addresses and titles in templated documents, as well as a built-in spell checker.

ASCII files can be produced with ease and documents can be merged or chained – great help in report writing, or even writing a novel.

Don't be put off by the fact that its manufacturers stress that it leans toward the PC for its origins rather than the PCW. With the emergence of the new 3.5-inch disc PCWs, this PCness could be in very useful indeed



The word processor with its roots set firmly in the PC world could prove to be a real boon to the future of the PCW. It has all the functions you could want and a comprehensive manual to boot.



# **Little Gem**

It's small, it's compact, and it costs just under £200. Too good to be true? Alec Rae puts the Cirtech Gem hard disc through its paces

# Flipper flop

Generally the Cirtech Gem seems to be compatible with most CP/M programs. The only one where we found problems was with Flipper, the **Software Imperative** utility that can divide your working memory into two or more environments. Like the Cirtech technology Flipper works at a very low level on the hardware and the two systems just don't get on.

f there is one piece of equipment that can transform a PCW into a powerful business tool it has to be a hard disc. Not only does it allow you to have all your programs and files easily accessible (without all that tedious changing discs) it also effectively increases the speed of the PCW making it easily competitive with its IBM compatible big brothers.

So why doesn't everyone have a hard disc? The one major problem has been that traditionally hard discs have cost more than the PCW. Now far be it from us to suggest that saying that PCW owners are penny pinching, but the very fact that someone has chosen Amstrad's finest machine often denotes a certain interest in economy.

So when Cirtech come along with a 20 megabyte hard disc that costs a mere £199 plus VAT (or a 40 meg hard disc at £299 plus VAT) the PCW world has to sit up and take notice.

Having been around PCWs for a while now Cirtech have also come up with most of the answers. For instance you can use LocoScript 2 or CP/M with comparative ease. When you set up the hard disc for the first time you can choose whether it will automatically load LocoScript 2 or CP/M when you start up.

If you have opted for LocoScript as the default and you want to use CP/M all you need to do is hold down the [ALT] key when you switch on the PCW and you will get the alternative setup.

#### No fuss set-up

The Cirtech Gem also appears to be able to handle all the Loco products and most CP/M software without a hitch and it can be set up with the minimum of fuss and with the minimum of technical knowhow. While earlier hard discs came complete with complex software to format the hard disc and divide into one of 27 different configurations of logical drives, with the Cirtech Gem you can virtually plug it in and start using it.

Because Cirtech use what is called an intelligent hard disc, there is no need to format the disc at any time. Formatting of old style hard discs was needed to discover where any bad sectors were and was used to make sure that no data was placed on these areas.

The new style discs work out automatically where the bad sectors are and takes the appropriate steps without you knowing anything about it. Because of the intrinsic dangers of low level formatting (like the loss of a life's work of data for instance) Cirtech have been quite happy to omit this.

#### "I'll ask this only once..."

The Gem comes with a special version of the CP/M startup file and a supremely simple 'first-time' set up procedure that could have you using your new hard disc in minutes.

The company have also included some software including a simple file manager, a useful file copying program and a back-up utility - all features that can help the newcomer get used to problems of organising a 20 or 40 megabyte disc.

And refreshingly, the Cirtech Gem comes with the absolute minimum of documentation. All that comes with the equipment is enough text to cover an A4 sheet. This might sound a bit nervewracking until you discover that Cirtech have done the sensible thing and put all the documentation on a special Help utility on the hard disc. To find out what to do next, you simply call up Gemhelp and read the instructions off the screen.

This really is a sensible course of action for a hard disc manufacturer. Even the biggest, glossiest manual can get lost. You shouldn't ever lose a program on your hard disc.

And manuals often seem to be created in a way that assumes the user will sit down and read the entire book before they set their hot little hands on the equipment. The reality is that a new user usually reads the first two paragraphs and then starts tinkering away until they get stuck. With this package you get no more than the installation instructions on paper.

Once running, you can call up specific details on screen on everything from how to set passwords for files to what information to have ready if you have to contact the distributors. This is probably the ideal way to learn.

### Breaking the speed limit

On one screen that you can call up it tells you, rather grandly, that the track to track access time is eight milliseconds, the average access time is 28 milliseconds and the minimum data transfer rate is 152,380 bytes per second. What this means in English is that it is a lot faster to load or save files on a Gem than it is on a floppy disc. If you are one of those people who spend the first 10 minutes of every PCW session loading your favourite programs in the M drive, you will understand when we say that accessing a file on the Gem is almost as fast as accessing a file in M drive.

This is actually more important than you think in speeding up your work on a PCW. There is often more time wasted getting information on to and off of a disc than there is waiting for the computer to work something out.

Programs that are too big to fit into the working memory of the PCW are broken down into sections which are loaded as they are needed. This process is obviously greatly increased by having

a hard disc (just look at the time trials chart over the page to get some idea of how speeds are increased).

#### What? No screen stand?

If one criticism can be levelled at Gem, it must be that it is quite tiny compared with many of the early hard discs. In the old days they were all big enough to act as a screen stand, lifting your monitor to a more convenient height.

This you cannot do with Gem and you therefore have to store it alongside the PCW - taking up what could be valuable desk space. It also doesn't have a particularly long electric cable which could restrict where you place it. And, compared to the brooding, unbroken silence of the PCW (well, except when its disc drives have a little whirl or it bleeps at you), the 40 megabyte Gem is quite noisy. The internal fan needed to keep it cool hums constantly and it gives little clicking noises at odd times.

If you are really worried by the noise, get a 20 megabyte model, which doesn't have a fan and therefore makes as much (or as little) noise as a PCW.

#### CP/M revisited

A hard disc works in exactly the same way as floppy disc except that it comes in a metal box and it can hold a lot more information. For example, the bigger Cirtech Gem can holding 40 megabytes of information can contain the equivalent of nearly 60 double density discs (the ones used for the 9512 and the B-drive on an 8512) and the equivalent of 250 8000 series A drive (173k discs).

This is obviously a great advantage. You can have all your favourite programs ready to call up at a moment's notice. Every file you ever created (from tiny word processed text files to massive desk top publishing pages packed with

drives. If you have had a two drive PCW

the fact that one drive is named A:drive

for a while you somehow get used to

and the other is (quite predictably)

Then when you start up a 40

megabyte Cirtech Gem you suddenly find

that what you thought was the A:drive is

suddenly the C:drive and the B:drive has

called B:drive.

```
CP/M Plus Amstrad ple
v 1.8, 61K TPA, 2 disc drives, STO/Centronics add-on, 368K drive M:
GEM U1.6 (C) CIRTECH UK Ltd 1991, LocoScript C: & D:, CP/M A: & B: - E: & F: in both
A: MATRIX PRI
HUN-SYSTEM FILE(S) EXIST
A)DIR
        BLOCO EMS : SCRCHAR JOY : KEYBOARD JOY : SCRIPT JOY : DISCHAM JOY
  JIBCPM3 EMS: SUBMIT COM: GEN COM: MANAGER $$$: GEN GEN HILP: MANAGER COM: BACKUP COM: RESTORE COM: PRINT GENHELP COM: GEN TXI: SHAP COPYDISK COM: GEN STEN FILE(S) EXIST
```

Gem's boot-up screen. In this case, drive a is the hard disc drive, containing the system files

```
GEMHELP U1.0
At the HELP) prompt, type the topic name
EXAMPLE
HELP) USING-HELP
Topics available:
USING-HELP
SPECIFICS
             INTRODUCING SETTING-UP
                                                       LOCOSCRIPT2 PROBLEMS?
```

Gem comes complete with substantial HELP files, covering all aspects of the hard disc's use

graphics) could probably be contained on a 40 meg Gem. Instead of spending hours searching though piles of three inch discs you can find a file in seconds on your hard disc. Or can you? The problem with a disc that can hold 2,048 files (the 40 megabyte model) is that it could be more difficult to find a specific file on a massive hard disc than in a pile of floppies (which can be neatly labelled and colour coded, of course).

#### Organise yourself!

The answer is, of course, that you have to organise your hard disc sensibly. It comes already divided up into handy five or 10 megabyte sections (20 or 40 megabyte versions) in effect, four

AS EASY AS...ABE

different hard disc drives A:, B:, E and F. (see the 'As Easy as ABE' box below). To move between them is as easy as moving from the A to the M drive. Simply type F:[RETURN] and you will be in the F drive. Or if you are in A: and want to run the program WORDPRO in D: just type in D:WORDPRO and the program should load.

This means you could, for instance, keep all your word processor files in one drive and spreadsheet files in another. And you might want to keep all your program files and CP/M utilities on one logical drive so that they are easy to find.

But the fact is that it is still quite difficult to find a file from amongst 512 files - the number you can have in each

#### Price Wars

If nothing else the appearance of a £200 hard disc seems to galvanised the rest of the industry to look at low cost hard discs for the PCW market. SCA, for instance, have just reduced the price of their Vortex hard discs. While they no longer produce a 20 megabyte model they have slashed the price of the 40 megabyte Vortex to £299, matching the Cirtech price.

The feature that is most likely to confuse your hard disc on to floppies. You will any PCW owner about the Cirtech Gem also notice that when you use LocoScript must be the way they have named the

2 your two disc drives are suddenly A and B again and the hard disc drives are C:, D:, E: and F:.

CONFUSED? YOU WON'T BE ...

You might be forgiven for being ever so slightly confused. But the answer is simple. There were, once, some shortsighted programmers writing for the PCW who never considered that there would ever be such a thing as a hard disc for such a humble machine.

Because of this their programs would never think of looking for files on a drive D: or F:. But every program available on the PCW is set up to be loaded from A or B or even both A and B drives. So you know that you should be able to successfully load any software from your hard disc using the new A and B drives.

One little quirk that this causes is in programs like Protext that actually check themselves whether there is a disc in

drive A before they write to it for instance. This means that Protext will insist that there isn't a disc in drive A (which remember is a hard disc drive) until you place a floppy disc (any one will do) into what is now drive C:.

Another side effect of this is that you have to use a specially modified version of DISCKIT.COM called, rather tersely, DISC.COM. See Gemhelp for details. This again makes sure you are formatting a disc in C: and not the hard disc.

LocoScript 2 is a bit less flexible in that it just won't accept a hard disc on drive A or B so you have to go back to the normal set up with the hard drives running from C: to F:.

One obvious advantage of the extra speed in way the hard disc accesses files is that you can flick along the drives in LocoScript with the screen updating quite quickly.

One thing to note is that all the LocoScript functions work normally but you can only carry out the disc manager function [f2] on three inch floppy discs.

#### become the D:drive. This might seem a minor inconvenience until the day when you put a disc into what you used to think was the A:drive, type in A:\*.\* and erase up to 10 priceless megabytes from your hard disc.

By the way just in case this does happen it might be worthwhile looking at the Gembelp sections on password protecting your important files in A: and B: so that CP/M will demand a password before you can delete your life's work. It is also worthwhile having a close look at the suggested methods of backing up

# Make a date!

As we have said. Gem's help screen. Gemhelp, provides some interesting ideas on the CP/M utility datestamp. For more information on how to use that utility, turn to this month's Tipoffs section, beginning on page

10 megabyte section.

This is where you suddenly have to start paying attention to all those obscure little CP/M utilities you found on the disc when you bought your PCW - the ones whose purpose you simply couldn't fathom out before now.

#### User blues

And you may also have to get to grips with rather obscure concepts like User Groups. Actually, if you have ever used LocoScript (and who hasn't?) you will already know something about these. The groups 0 to 7 that you see at the top of the disc management screen in LocoScript are nothing other than user groups. Every CP/M disc from a 173k floppy to the biggest hard disc can all be divided up into 16 user groups (numbered 0 to 15 just to confuse outsiders). LocoScript just uses the first eight and keeps groups eight to 15 for Limbo files.

The only difference is that on a 10 megabyte hard disc drive it is quite sensible to divide your files up in this way while on a 173k floppy it is often more trouble than it is worth.

Just as you can change to drive B by typing B:[RETURN] at the A> prompt you can change to user group 6 by typing 6: at the A> prompt. You will see the prompt change to 6A>.

Then, if you take a directory of files (type DIR [RETURN]) only those files that are in group six will show. However if you do want to look at files in all the groups and you have DIR.COM on your hard disc type DIR[USERS=ALL] and you will get a list of all the user groups.

Many of the more modern software packages now allow you to access or to save files to user groups. The file copying utility and the backup program that Cirtech provide both have the distinct advantage that they will automatically handle all the files in all the user groups. One of the great

# Time trials on a 3,500 word document

|          | LOADING       | SAVING        |
|----------|---------------|---------------|
| 3" DISC  | 10.40 seconds | 34.11 seconds |
| M: DRIVE | 3.69 seconds  | 4.24 seconds  |
| GEM      | 3.81 seconds  | 4.28 seconds  |



Gem fits neatly on to the back of your PCW, via its own expansion box (see box below)

bugbears of using user groups was always having to switch back and forward when backing up your discs.

Gemhelp also gives some good ideas on the CP/M utility for date stamping your files (keeping a note of when they were created) allowing you to work out what file you are looking for by the date. It also gives details on functions like how to password protect your files again a normal CP/M functions using SET.COM but one that you may consider useful.

#### Just managing

One piece of software that comes on the disc is MANAGER.COM - a file managing program. Many manufacturers have tried to popularise file managers on the PCW but they haven't seemed to take off. Perhaps the complications of finding a file on a hard disc might just give the impetus needed.

Manager is a simple program with none of the fancy file tagging features that you would find in a PC file manager. But having said, that it could well prove useful to anyone not conversant with the ways of finding files using CP/M utilities.

Based quite closely on a LocoScript disc management screen it allows you to check files on each drive and user group, to copy, erase, rename and print files with little effort. It will also run any program. This is certainly helpful for finding your way round the hard disc.

This is the same design as a new cut down printer expansion box that Cirtech are launching. Unlike the new design, low cost parallel printer ports just recently launched, these work with existing versions of CP/M and LocoScript 2 without problems.

With the proliferation of expansion boxes with mice, hand scanners and RAM (memory) packs it is very sensible for someone using an external printer to take up this option.

The Cirtech Gem is, all in all, a good, solid, fast and well-priced hard disc which any PCW user could find useful. There has been a good deal of thought and care lavished on its production, which puts Gem truly in a class of its own.

# GEM hard disc

## Pluses

- ▲ Inexpensive
- Fast
- ▲ No fuss set up

## Minuses

- Takes up desk space
- The 40 meg version is a little noisy
- Range of features 4/5 Ease of use 4/5 Installation 5/5 Value for money 5/5
- 8000 PLUS value verdict

18/20

### **INSTALLING THE CIRTECH GEM**

A four year old child could set up the Cirtech Gem. Unfortunately we couldn't find one but we did not too badly ourselves. All you need is a small space on your desk, an electricity socket, a copy of LocoScript 2 (at least version 2.28 or later) and about 10 minutes of

The Gem comes with an expansion box that fits into the expansion slot on the back of the PCW. If you have an 8000 series machine (one without an inbuilt parallel printer port) and you use an external printer you can get an expansion box with a parallel fitting to handle the printer cable.

The box has a through connector which means that it can have other expansion boxes 'piggy-backed' on to it.

So, if you have a Rampac, hand scanner or mouse you can still use them with the hard disc.

By the way, make sure you have

switched your PCW off before you fit the expansion box. Attach the electric cable into the back of the hard disc, plug it into the mains and then attach the ribbon cable to the expansion box (it has a ridge on one side so you can't force it on upside down.)

Switch on the Gem (a little rocker switch on the back) and switch on your PCW. The first time you use it, it takes you through a 'once only' set up routine. This asks you really difficult teasers like, for example, "do you have an 8000 series machine or a 9512?"

It also asks you to load your version of LocoScript 2 - you just put the disc in the drive at the correct moment - and the software does all the file transferring.

It has to be version 2.28 of LocoScript or later. If you don't have the correct version you can get an upgrade from Locomotive Software (assuming you have a copy of LocoScript 2, of course).

It also allows you decide at that point whether you want CP/M or LocoScript to load by default. To choose the one which you would prefer, you just hold down the [ALT] key while starting up.

After that, you simply use the hard disc as you would use four big floppy discs - except you can't slip them into your pocket of course. You can save, load, erase, copy and rename files just as you have been used to doing before.

If you would prefer, there is an option to change the settings to have only two logical drives instead of two. This is rather complicated and hardly seems worth it unless you have a good reason. But it is an option.

One advantage with having a hard disc is that you need never again boot up in the standard way. Just switch the machine on and in seconds the PCW is ready to use. You can, of course, use a PROFILE.SUB file if you want.

# The Digita range...

System 3

A suite of programs which perform all the basic functions for a small business. They may be used independently or integrated and include Cashflow Controller, Stock Control and Invoicing and Statements (512K memory and double-sided disk drive required). £59.99





If you're looking for fast access to information then this database is for you. Novice or expert, you can create customised reports, mailing lists for printing labels, office and personal records.

£39.99

#### **Business Controller**

Take the drudgery out of book keeping as this program will replace your cash and petty cash books. In addition to recording cash, bank and VAT transactions, you can enter credit sales and purchases, and for all these entries the program will automatically complete double entry routines, to ensure your records are always in balance. Reports include Trial Balance, Trading and Profit and Loss Account. Balance Sheet, as well as useful accounting ratios. £79.99





#### E-Type

Transform your PCW into a typewriter. Because text is printed instantly, you can line up your form, press return and space a few times to move to the correct place, and then start typing. Ideal for filling in forms, envelopes and so on.

£29.99

#### Perfect Touch

This typing tutor will teach you to touchtype, improving both your speed and accuracy at the keyboard. Equally suitable for beginners, 'two-fingered typists' or those already familiar with the keyboard. £29.99



The only way to really appreciate Digita software is to use it. Phone 0395 270273 for more information, or write to Digita, FREEPOST, Exmouth EX8 2YZ. All prices include VAT, postage and packaging.



software thats right®

The Digita range is available to the trade through Columbus, Gem, IBD, Lazer and Leisuresoft.

Digita International Ltd Black Horse House Exmouth EX8 1JL ENGLAND Tel 0395 270273 Fax 0395 268893

A member of the Digita group –
 Digita and the Digita logo are registered trademarks, and software thats right are trademarks of Digita Holdings Ltd.
 All other trademarks and their owners are acknowledged. Sold subject to standard conditions of sale E & OE.



computer et al when not in use? Or do you just like to be tidy? Then this is for you: The Pa-Ca-Way is a high quality,

sturdy, unit already used worldwide, in schools, businesses and the home. The Pa-Ca-Way 8000 and 9000 cabinets are designed to permanently house the whole computer, complete with paper and disc storage, in one tidy and portable unit, while also improving the ergonomics of

Houses the whole computer.

· Components remain connected.

 Ash veneered panels, lacquered black. Flat pack kit.

 Includes storage for discs, paper, mouse and mains plug!

· Monitor raised and angled for improved viewing.

Printer securely held for use and

NEW ERASABLE DISC LABELS

computing.

For 3" (PCW) and 31/2" discs used on all major computers. No more scruffy, faded, crossed out labels or the hassle of removing old ones. Carefully designed to allow more room for writing Superior matt vinyl surface for permanent Superior matt vinyl surface for permaner marking pens • Erasable using supplied solvent • 100 B&W or colour coded solvent • IUU b&yy or colour coded labels in assorted handy pack • With red and black pens • For 31/2" and 3" A and/ or B drive discs. From £0

NEW PAGE LAYOUT

For graphics programmes • Printed on clear acetate • Simple to Printed on clear acetate Simple to use Place your designs on the page to use riace your designs on the page to pixel accuracy before committing yourself to screen Avoid the repeated use of the "move" functions. Also available, Metric (millimetre) conversion templates for accurate scale drawing in isometric (30°) accurate scale drawing in isometric (st and orthographic (45°) projections. Currently available for Microdesign 2. Proscan and Stop Press.

All prices include VAT and delivery. Please ask for our INFORMATION PACK with FREE sample labels and template.



#### **GNOME DESIGNS**

To order, post your cheque to Gnome Designs, FREEPOST LS 2372, 11 Syke Lane, Leeds LS14 3YY making sure you include your name and address.

FOR ENQUIRIES OR TELEPHONE ORDERS USING AMEX, ACCESS OR VISA PHONE:



0937 587171



Allow up to 28 days for delivery. Cash with order.

# Listings

More BASIC programs to amaze your friends. One will tell you how easy your writing is to read, and the other will provide bar codes for your new products!

# **BARCODE.BAS** by Alan Dennis

A couple of months ago we issued a challenge: could anybody come up with a program to produce bar codes. Several of you could, but Mr Dennis of Barrow could do it the best!

His solution does three things: it scans the code to make sure that it is valid, by verifying the special check digit and rejects it if it is not; if the check digit is missing, it adds it in; and it prints the bar code on the printer.

The system of bar codes which the program uses is EPOS, which besides being the Ancient Greek for 'word' is also short for "Electronic Point of Sale"

The system is based on either 13- or 8- digit numbers - the numbers you often see printed across the bottom of a bar code. All but the last of these numbers carry information about the country, manufacturer and product. The last is a checksum digit, derived in a rather convoluted way from the others.

The 'bar' itself is made up of 15

Ok RUN "BARCODE" Epos Number :9770952505013 The checksum digit is 4 Dodgy Checksum in your number Epos Number :977095250501 The checksum digit is 4 Check paper in printer: any key when ready



Putting our own bar code into the machine (you can see how it deals with mistakes, or missing numbers) produces this result

elements (11 elements for 8 digit numbers), which include three 'guard' segments - at the start, middle and end - common to every bar code.

The other elements of the bar code are representations of the individual numbers (the actual bar for the 13 digit number does not use the first digit); but there are three possible representations of each number, depending on its position and the outcome of yet another code transformation.

A complicated way of generating a set of lines - but luckily, you don't need to know about that for this program. All you need to know are the 12 or 7 digits which precede the check digit. If you have the check digit, too, all well and good (the program will tell you if it is wrong); if not, it will automatically be added to the number.

Unfortunately, the program cannot print out on the 9512. However, you can still use it to generate and verify the all-important check codes, simply by omitting lines 240 to the end, and making line 240 read "240 GOTO 150".

| 10 | 0 REM BARCODE by Alan Dennis                                | 0E0E |
|----|---|------|
| 20 | 0 WIDTH LPRINT 255:DIM a\$(2,9)                             | 0EC8 |
| 30 | 0 e\$=CHR\$(27):d\$=e\$+"L":w\$=CHR\$(0):v\$=STRING\$(14,0) | 1220 |
| 4( | 0 FOR i=0 TO 9:a=ASC(MID\$("MYS)cqo(wK",i+1,1))-64:c=0      | 1A4D |
| 50 | 0 FOR j=1 TO 7:b=255*(a AND 1):a=a\2                        | 0E18 |
|    |   |      |

#### The '\' character is entered using [ALT]+[@] - it is not '/'

| 60 IF (c=0) AND (b=255) THEN a\$(0,i)=CHR\$(b)+CHR\$(c)+a\$(0,i):GOTO 80     | 1899 |
|--|------|
| 70 a\$(0,i)=STRING\$(2,b)+a\$(0,i)   | 0A10 |
| 80 b=255-b:IF (c<>0) OR (b<>0) THEN a\$(1,i)=a\$(1,i)+STRING\$(2,b):GOTO 100 | 1B05 |
| 90 a\$(1,i)=LEFT\$(a\$(1,i),MAX(0,LEN(a\$(1,i))-1))+STRING\$(3,b)            | 1595 |
| 100 IF (c=255) AND (b=255) THEN a\$(2,i)=CHR\$(255)+w\$+a\$(2,i):GOTO 120    | 17CF |
| 110 a\$(2,i)=STRING\$(2,b)+a\$(2,i)  | 0A43 |
| 120 c=255-b:NEXT:a\$(1,i)=MID\$(a\$(1,i),2,13)+w\$:NEXT                      | 132B |

#### These lines set up the printer codes which will eventually produce the barcode

|   | 130 | b1\$=CHR\$(255)+w\$:wt\$=STRING\$(2,0):g1\$=b1\$+wt\$+b1\$:c1\$=wt\$+g1\$+wt\$ | 1A09 |
|---|-----|--|------|
|   |     | b2\$=CHR\$(192)+w\$:w2\$=STRING\$(2,0):g2\$=b2\$+w2\$+b2\$:c2\$=w2\$+g2\$+w2\$ | 17D9 |
|   | 150 | INPUT "Epos Number :",a\$:a=LEN(a\$):IF a<>13 AND a<>12 THEN 180               | 1C0A |
|   | 160 | c\$=LEFT\$(a\$,1):c=VAL(c\$):a\$=MID\$(a\$,2):1=6                              | 100B |
|   | 170 | b=ASC(MID\$("@KMNRY\UVZ",1+c,1))-64:GOTO 190                                   | 148D |
| ı | 180 | IF a=8 OR a=7 THEN c\$=" ":c=0:b=0:1=4 ELSE PRINT"Dodgy number":GOTO 150       | 218A |
| i | 190 | k=c:FOR i=1 TO 2*1 STEP 2:k=k+3*VAL(MID\$(a\$,i,1)):NEXT                       | 17F3 |
|   | 200 | FOR i=2 TO 2*1-1 STEP 2:k=k+VAL(MID\$(a\$,i,1)):NEXT                           | 18C3 |
| п |     |  |      |

Line 150 accepts a number, which is then checked and rejected if it does not follow the rules

| 210        | k\$=CHR\$(58-K MOD 10):IF k\$=":" THEN k\$="0"   | 0FD4         |
|------------|--|--------------|
| 220        | PRINT "The checksum digit is ";k\$:IF a=7 OR a=12 THEN a\$=a\$+k\$:GOTO 240  | 22DE         |
| 230        | IF MID\$(a\$,1*2,1)<>k\$ THEN PRINT"Dodgy Checksum in your number":GOTO 150  | 232D         |
| 240        | PRINT "Check paper in printer: any key when ready":WHILE INKEY\$="":WEND   | 26D7         |
| 250        | p\$=STRING\$(16,0)+g1\$:b\$=STRING\$(16,0)+g2\$  | 0F77         |
| 260        | FOR i=1 TO 1:a=VAL(MID\$(a\$,i,1)):p\$=p\$+a\$(1+((b AND 32)<>32),a)   | 184A         |
| 270        | b=b*2:b\$=b\$+v\$:NEXT:p\$=p\$+c1\$:b\$=b\$+c2\$   | 116C         |
| 280        | FOR i=1+1 TO 2*1:a=VAL(MID\$(a\$,i,1)):p\$=p\$+a\$(2,a):b\$=b\$+v\$:NEXT   | 1C30         |
|            |  |              |
|            | These lines (from 260) build up p\$, which represents the bar code itself  |              |
| 290        | These lines (from 260) build up p\$, which represents the bar code itself  p\$=p\$+g1\$:b\$=b\$+g2\$:LPRINT e\$;"A";CHR\$(8) | 10A1         |
|            |  | 10A1<br>16B7 |
| 300        | p\$=p\$+g1\$:b\$=b\$+g2\$:LPRINT e\$;"A";CHR\$(8)  |              |
| 300<br>310 | p\$=p\$+g1\$:b\$=b\$+g2\$:LPRINT e\$;"A";CHR\$(8) FOR i=1 TO 8:LPRINT d\$;CHR\$(LEN(p\$));w\$;p\$:NEXT                       |              |

#### And finally, everything is printed out using the LPRINT in these last five lines

| 340 LPRINT d\$; CHR\$(LEN(g1\$)); w\$; g2\$: GOTO 150 | 1239  |
|---|-------|
|   | 12345 |

# **READABLE.BAS** by Richard Fairhurst

Do you ever worry that people can't read your writing? Not in terms of the calligraphy - not an issue when you're word processing - but whether you use lots of short words, or prefer an proliferation of multi-syllabic paraphrases producing circumlocutory expositions of uncomplicated conceptualisations. Long words, to us.

When you are writing, it is very difficult to stand back from a piece and say objectively how difficult it is going to be to read. What you need is something that can look at the evidence in a disinterested manner, and form its own conclusions. And you have one of those: a computer.

When you type in and run this program from Richard Fairhurst, you will be asked for the name of the document to be analysed. This must be an ASCII file - if you want to analyse a LocoScript file you will have to convert it first using the 'Make ASCII file' option under [f1] of the Disc manager ([f7] in LocoScript 1).

Give the name of the file, then, and sit back and wait - but don't go away quite yet. The program will flick through



Readable goes to work on the text of this article. Each long-looking word is questioned, and the results are displayed.

the file and examine every word. If it comes across one that is three syllables or more, it will ask if it is a 'proper noun' - the name of someone or something. There is obviously nothing you as the writer can do about simplifying 10 syllable names, so the program will ignore them in its calculations to work

out the readability of the text.

However, its tests for the number of syllables are not exhaustive. The spelling of some words may trick it into thinking that a word of two syllables actually contains three syllables. If this happens if you are presented with a two syllable word - press 'Y' anyway.

When it has gone all the way through the document, the program will produce its results. There are three results, each representing the readings of separate methods: the FOG index, the Automated Readability and the Coleman-Liau. Each claims to evaluate the reading age required to read your piece of text.

You'll find that they differ in their conclusions, but try running a few different pieces through - perhaps a tabloid story, a piece from the Times, some Dickens and some Enid Blyton. You'll get a feel of the sort of scores that each produces, which you can then apply to your own work.

As a bonus, type PRINT word and you will be given a word count for the piece: PRINT sentence and PRINT length will similarly tell you the number of sentences and individual characters.

#### Designer error

Whoops! Apologies to Tom Pearce and all who've been disappointed so far a line got omitted from the September Listings pages. If you add a line 540 to the DESIGNER.BAS program: 540 text\$(7)=text\$(7)

+STR\$(b(pqr,mno)

+",":RETURN

then order will be

restored.

| 0ABD |
|------|
| 1DE1 |
| 0F69 |
| 0F22 |
| 0C73 |
| 12DF |
| 1BC3 |
| 1611 |
| 078E |
| 080C |
|      |

Lines 50-100 read the file and calculate the number of words, characters and sentences in the piece.

| 07E4 |
|------|
| 1272 |
| 10A8 |
| 144E |
| 04FD |
| 0476 |
|      |

#### Error 62 is the 'End of File' error. In this case, the end of the file is a good thing, not an error, so we can continue

| 170 IF ERR<>62 THEN ON ERROR GOTO 0 ELSE RESUME 180       | 18AA |
|---|------|
| 180 PRINT   | 047B |
| 190 fog=(word/sentence+ex/(word/100))*0.4                 | 1315 |
| 200 ari=4.71*(length/word)+0.5*(word/sentence)-16.43      | 16F3 |
| 210 cli=5.89*(length/word)-0.3*(sentence/(word/100))-10.8 | 16BA |
| 220 PRINT "FOG"; TAB(40); ROUND(fog, 1)                   | 1072 |
| 230 PRINT "Automated Readability"; TAB(40); ROUND(ari,1)  | 1CF2 |
| 240 PRINT "Coleman-Liau Index"; TAB(40); ROUND(cli,1)     | 1916 |
| 250 END   | 036C |
|   |      |

#### Lines 190 to 210 calculate the different indices - if you want to know how each is calculated, this is the place to look!

| 260 ' Syllable counting routine  | 1170 |
|--|------|
| 270 hyphen=0:syllable=0  | 0C63 |
| 280 w\$=LOWER\$(w\$)   | 0609 |
| 290 IF FNr\$(1)="e" AND FNr\$(2)<>"le" AND FNr\$(2)<>"re" THEN w\$=LEFT\$  |      |
| (w\$, LEN(w\$)-1)  | 1F1E |
| 300 IF LEFT\$(w\$,1)="y" THEN MID\$(w\$,1,1)="&"                           | 0F3A |
| 310 IF FNr\$(2)="ed" OR FNr\$(2)="es" THEN w\$=LEFT\$(w\$, LEN(w\$)-2)+"&" | 187C |
| 320 IF FNr\$(4)="uous" THEN w\$=LEFT\$(w\$, LEN(w\$)-4)+"&£&£"             | 1660 |
| 330 IF FNr\$(2)="ea" THEN w\$=LEFT\$(w\$, LEN(w\$)-2)+"&f"                 | 1566 |

#### Lines 290 to 330 represent a brief lesson in English pronunciation - what is and isn't a new syllable

| 340 | RESTORE 460:FOR n=1 TO 6:READ t\$   | 0F4C |
|-----|---|------|
| 350 | IF INSTR(w\$,t\$)>0 THEN w\$=LEFT\$(w\$,INSTR(w\$,t\$)-1)+"&£&£"+MID\$    |      |
|     | (w\$, INSTR(w\$, t\$)+2)  | 2529 |
| 360 | NEXT  | 0428 |
| 370 | FOR n=1 TO LEN(w\$)   | 0962 |
| 380 | IF MID\$(w\$,n,1)="-" THEN hyphen=-1                                      | 0F23 |
| 390 | IF INSTR("aeiouy£", MID\$( $w$ \$, n, 1))>0 THEN MID\$( $w$ \$, n, 1)="£" |      |
|     | ELSE MID\$(w\$,n,1)="&"   | 2525 |
| 400 | NEXT  | 0418 |
| 410 | n=INSTR(w\$,"ff"):IF n>0 THEN w\$=LEFT\$(w\$,n)+MID\$(w\$,n+2):GOTO 410   | 1F08 |
| 420 | n=INSTR(w\$,"&&"):IF n>0 THEN w\$=LEFT\$(w\$,n)+MID\$(w\$,n+2):GOTO 420   | 1BA1 |
| 430 | IF LEFT\$(w\$,1)="£" THEN w\$="&"+w\$                                     | 0F24 |
| 440 | IF LEFT\$(w\$,2)="&f" THEN syllable=syllable+1:w\$=MID\$(w\$,3):GOTO 430  | 2268 |
| 450 | RETURN  | 050E |
| 460 | DATA ao, eo, uo, ua, oe, ia   | 0BD4 |
|     |   |      |

The final data line is a 'dictionary' of non-diphthongs, which is consulted in line 340-360, again to check the number of syllables

#### **HOW TO TYPE IN A LISTING**

Load up CP/M, and type BASIC [RETURN]. You can immediately begin typing in the Listing, including everything except the numbers on the right hand side. These are for the special CHECK3 program (see the July issue).

Only use the [RETURN] key at the end of each full line of text. When you have typed in the Listing, check it carefully - especially the punctuation - and then save it by typing SAVE followed

by the name of the program in inverted commas. You can then reload it whenever necessary by typing LOAD followed by the same program name in inverted commas.

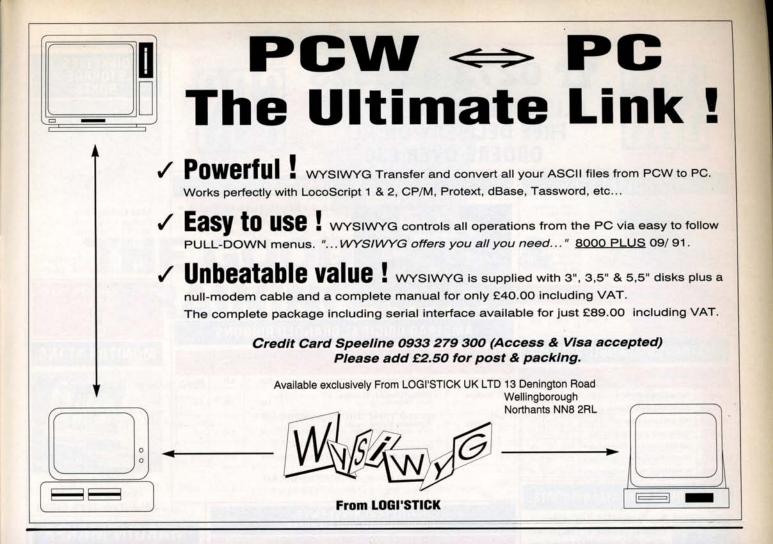
To run the program, simply type RUN [RETURN]. If the program doesn't work, type LIST and check your typing thoroughly - the smallest mistake can make the program crash.

If you do find a typing error, you can

either rewrite the whole line, or else type EDIT followed by the line number, and correct the mistake from there.

When editing, use the cursor keys to move around. Don't forget to save the corrected version before running it! If you do get an error message with a line number attached, it does not necessarily mean that the mistake lies in that line.

For more details, see the Listings pages of previous issues.



# A Touch of Class

# What the press said about the Tequiche PCW 102 Keyboard

"Such is the ease of movement that the keyboard even seems to increase typing speed"

8000 Plus, April 1991.

"Essentially the new PCW keyboard addresses these three problems: 1. Key layout 2. Key spacing 3. Key action - and solves them well" 8000 Plus, April 1991.



"It's very sensibly priced, and itis, indisputably, streets ahead of the 8256/8512 keyboard and quite a few houses in front of the 9512's"

8000 Plus, April 1991.

The PCW 102 keyboard, available from most good computer dealers at £79.00 or less.

Buy one and give your PCW a new professional lease of life.

Amstrad PCW, June 1991.

For details of your nearest Tequiche dealer, contact Pan Euro, 8 Craven Court, Winwick Quay, Warrington, WD2 8QU England. Telephone (0925) 234170 Facsimile (0925) 234160





# **7** 0273 423523

# ALL PRICES INCLUDE V.A.T. FREE DELIVERY ON ALL ORDERS OVER £30



# **3" CF2 DISKETTES**



3" disks suitable Amstrad CPC6128, PCW8256, PCW8512 (A and B), PCW9512 and all other computers with 3" disk drives.

| SES ORDER |   | 110   | PRICE PER SOURCE |       |
|-----------|---|-------|------------------|-------|
| COME      | SICSEMPTIME.                                | 19-48 | 50.00            | 1004  |
| DSAM301   | Amsoft CF2 3" Diskettes                     | 15.95 | 15.80            | 15.65 |
| DSMA003   | Maxell CF2 3' Diskettes<br>in Plastic Cases | 72.90 | 22.50            | 22.00 |

**AMSTRAD COMPATIBLE RIBBONS** 

DMP2000/3000/3160/3250 di Fabric Black 2.76 2.58 2.35

LQ3500 Fabric Black \*Reduced price 4.46 4.00 3.60

PCW 8256 Carbon Black \*Reduced price 2.82 2.64 2.46 PC 8256 Fabric Black \*Reduced price 2.82 2.64 2.46

DMP4000 Fabric Black \*Reduced price 4.99 4.52 4.05 PCW9512 Fabric Black \*Reduced price 2.23 2.05 1.88 PCW9512 Fabric Black \*Reduced price 2.23 2.05 1.88

# 31/2" CF2 DISKETTES



KAO PROMOTIONAL PACK \*

30 Branded Diskettes -10 green, 10 red, 10 yellow in a FREE storage box & rainbow labels

- Double Density DSKA998 £19.95 (unit cost £0.63)
- High Density DSKA999 £35.00 (unit cost £1.16)

# AMSTRAD ORIGINAL BRANDED RIBBONS

| SBS CODE | DESCRIPTION   | PRICE PER RIBB |      | BON  |
|----------|---|----------------|------|------|
|          |   | 1-6            | 7.12 | 13+  |
| RBAM005  | LQ5000 branded nylon ribbon                                   | 10.51          | 9.87 | 9.16 |
| RBAM006  | PCW9512 branded carbon ribbon -<br>black *Reduced price       | 2.90           | 2.80 | 2.70 |
| RBAM003  | PCW8256/8512/L03500 branded nylon ribbon *Reduced price       | 4.50           | 4.35 | 4.20 |
| RBAM004  | PCW8256/8512/LQ3500 branded carbon film ribbon *Reduced price | 4.50           | 4.35 | 4.20 |

Colours available: Red. Blue, Green (P.O.A.) Please phone our Customer Service Dept if the ribbon you require is not listed

QUALITY CONTINUOUS PAPER

MICROPERFORATED ON ALL EDGES

1 Part plain micro perf. 60gsm

1 Part plain micro perf. 70gsm

Part plain micro perf. 90gsm

#### ONLY £7.65 Please state type & style required.

Storage for up to 70 × 5<sup>1</sup>/<sub>4</sub> " diskettes DADF70L £6.99

PCW 9512 PRINTWHEELS

Mini Diskette Box Storage for up to 30 × 3"/ 50 × 3<sup>1</sup>/<sub>2</sub>" diskettes DADF50L £5.30

Diskette Box

DISKETTES STORAGE

BOXES



Suitable for most monitors (up to 18")

Tilt & Turn 3100 £17.05

## 3" DISK DRIVE HEAD CLEANING KITS



**RB2741DN** 

RB2741MS

1B2426 FN

Regular use of Disk Drive Head Cleaning products extends the life of the disk drive and protects your valuable data on the disk.

CC100 Clearhead 3" Cleaning Kit £2.95

# WHITE LABEL MINI PACKS

LC395 31/2" X 1 7/16" 1 Across labels £9.95 per box (1000). Call for other sizes available

# 4 GANG ADAPTOR CE010 £17.50

#### SILK MESH FILTER

**AMSTRAD DUST COVERS** 

AMGARD ACOUSTIC HOOD

This filter comes complete with anti-static lead as standard

Monitor Keyboard

Monitor Keyboard and print co-

14" - 310mm × 255mm 12" - 280mm × 225mm

CF100 12" Filter m

CF110 14" Filter mono

£23.45 PCW1512/1640 PC2086

£23.45

PCW8256/9512 PC2086 £23.45 PC2086 £6.45 (adapts filter to co

9.69

# ALL PRICES PER BOX DELIVERY CHARGES 1-2 BOXES @ £3.50 For large **KEYBOARD STORAGE DRAWER**

#### Dimensions

CAT No

783/DT

790/DT

LP052/DT

11 x 91/2"

112/3 x 91/4"

112/3 x 91/4"

Internal:  $20^7/8$ "(w) x 10"(d) x  $2^7/8$ "(h) External:  $21^7/8$ "(w) x  $15^3/4$ "(d) x  $3^1/2$ "(h)

CK060 £34.60



14.39

18.13

12.60

2000

1000

# MARGIN MAKER

THE NEW & IMPROVED MODEL! SINGLE CUT-SHEET LOCATOR & ALIGNER FOR THE AMSTRAD



CUT-SHEET LOADING, LOCATION & ALIGNMENT!

CG002 £15.27

#### COPYHOLDERS



SPRING ARM CH100 £16.45

> DESKTOP CH001 £9.28



# PCW COMPUTER LUGGAGE

CUSTOM DESIGNED FOR YOUR AMSTRAD COMPUTER This three-piece travel set is designed specifically for carrying your Amstrad PCW8256/8512 monitor, keyboard and printer.

The case also features a durable, water resistant nylon exterior with a strong adjustable nylon shoulder strap and carrying handles. There is also a space for disks/manuals etc at the side of the monitor. ATC001 £55.80



#### PRINTER STANDS

#### SPACE SAVER A5



- Feeds forms smoothly to both
- rear & bottom feed printers. Automatic refolding of printouts without using a separate tray Printer Stand 80 Column 380(H)x415(W)x460(D) 3212 KD80 £32.30

#### UNIVERSAL A5



- · Securely holds any printer Dimensions
- 330mm (L) × 140mm (H) PD050 £11.16

## **MO 133 PC STAND**

- · Sliding printer shelf to accomodate both 80 & 132 Column printers.
- Available in grey or cream &
- Large working area
- · Mounted on lockable castors.

#### M0133 £116.35 + £7.50 +P+P

#### DIMENSIONS - 720 28 - 750 29<sup>1</sup>/-D = 750 291/2



- Cuts stressful printer noise by up to 90% Versions available for single/continuous and automatic sheet feeder
- For 9512 without sheet feeder AMG002
- For 9512 with sheet feeder

£128+£7.50 P+P



# THE GOOD CLUB & TRAINING GUIDE

### **CLUBS**

#### **York Amstrad Computer Club**

Enterprise Social Club, 17 Nunnery Lane, York (address for meetings only) Enquiries:Simon Williams 0906 40164

#### Scotwest.PCW

19, Porton Place, Old Greenock Road, Bishopton, Scotland Enquiries: Iain Lang 0505 863916

#### **Ground Floor User Group**

Holme Street, Hebden Bridge West Yorkshire. Enquiries:Jae Campbell 0422 844991

#### CP/M and MS DOS User's Group

11 Hazlemere Road, Windsor, Berkshire SL4 5ET. Enquiries:David Nesbitt 0753 866854

#### Hampshire PCW User's Group

Unit 5, Cable Street, Northam, Southampton, Hampshire (address for meetings only) Enquiries: Paul Day (above address)

#### **Hereford Computer Club**

18 Church Street, Hereford Herefordshire HR1 2LR Enquiries: David Rose 0432 267123

#### **Teesside Amstrad User Group**

8 Knayton Grove, Greenvale, Stockton-on-Tees, Cleveland TS19 7RW Enquiries:Gladys Baker 0642 580018

### M25 User Group

58 Islip Gardens, Northolt Middlesex UB5 5BY. Enquiries: Tony Brown 081 841 3666

#### **Littlemore Amstrad PCW User Group**

Peers School (Adult Education Centre), Littlemore, Oxford Enquiries: R G Hughes 0865 242720

# The Worldwide Amstrad Computer Club (WACCI)

9 South Close Twickenham TW2 5JE Enquiries: Steve Williams (see above)

#### Heads of the Valleys PCW User Group

Birchacre, Croes Bychan, Llwycoed, Aberdare CF44 0EJ Enquiries: 0685 874972

#### **North Norfolk Computer Club**

Kontiki, Ingworth, Norwich NR11 6PL (address for enquiries only) Enquiries: Mr Oldman (above address)

#### MicroDesign2 Int. User Group

15 Elsham Close, Bramley, Rotherham S66 0XZ. Enquiries: Phil Cole (above address)

#### **Hastings PCW Club**

7 Fulford Close, St. Leonards-on-Sea, East Sussex TN38 0PN Enquiries: Joe Unwin Hastings 715108

#### **Gloucestershire PCW User Group**

2A Selsey Villas, Selsey West, Stroud GL5 5LQ Enquiries: David Bailes 0453 828281

#### TRAINING

#### **Banna Word Processing**

29 New Bond Street, London W1Y 9HD Subjects: Loco 1&2, SuperCalc, Enquiries: 071 493 3336

### **Computer Training Centres UK**

Exchange Buildings, Upper Hinton Road, Bournemouth BH1 2HH Enquiries: 0202 299676

#### **Dynamic Sales and Training**

47 Goldsworth Road, Woking, Surrey Subjects: LocoScript 1 & 2, dBase, dBase II, SuperCale 2. Enquiries: 0483 756914

#### **Headline Communication Ltd**

PO Box 22, Hereford HR4 8UW Subjects: LocoScript 1 & 2, CP/M, dBase II, SuperCalc 2 Enquiries: 0432 271598

#### **Horsham Office Skills Training**

Unit 2, 24 London Road, Horsham, West Sussex RH12 1AY Subjects: LocoScript 1 & 2, Wordstar Enquiries: 0403 211440

#### John S Blandford

15 St Albans Road, Sandridge, St Albans, Herts AL4 9LA. Subjects: LocoScript 1, 2 & PC, LocoFile and LocoMail Enquiries: 0727 59913

#### **Linkom Training**

32 Hill Street, Totterdown, Bristol Subjects: LocoScript 1 & 2, Sage Accounts. Enquiries: 0270 717435

#### **No Hassle Computing**

36 Tantallon Road, Balham, London SW12 8DG Subjects: LocoScript 1 & 2, Supercale, Cracker, Masterfile 8000. Enquiries: 081 675 3139

#### **Molesley Education**

Flat 3, 10, Matham Road, East olesley Subjects: LocoScript 1 & 2, Loco PC Enquiries: 081 941 1364

#### **Scottish Business Services**

28 High Street, Paisley PA1 2A7 Enquiries: 041 8481135

#### **Off the Shelf Training Services**

5a West Street, Bognor Regis, West Sussex, PO21 1UB. Subjects: LocoScript 1 & 2, LocoMail. Enquiries: 0243 827778

#### Rodesign

195 Milwards, Harlow, Essex CM19 4SJ. Subjects: Micro Design, ProScan. Enquiries: 0279 444313

#### **Victoria College**

13 Dalton Square, Lancaster, LA1 1PL. Subjects: Loco 1&2, Supercalc, dBase, WordStar,Sage Accounts, Stop Press Enquiries: 0524 33996

#### **Wetherby Office Training**

Cambridge House, 39 Cambridge St. Wellingborough, Northants NN8 1DW. Subjects:Loco 1&2, dBase, Supercale 2 Enquiries: 0933 222400

#### **Wetherby Price Training**

30 New Canal, Salisbury, Wiltshire. Subjects: LocoScript 1 & 2, CP/M, SageAccounts. Enquiries: 0722 24005

#### Jacquie Errington,

2 Willow Tree Close, Wickham Market, Woodbridge, Suffolk IP13 0TB Subjects: LocoScript 1, 2 & PC, LocoFile, LocoMail. Enquiries: 0728 746461

# **eyMouse**



THE NEW MOUSE FOR MICRODESIGNERS!

#### **FEATURES**

- □ KeyMouse is a high-quality three-button mouse specially made for Creative Technology by Naksha.
- □ A unique mouse controller gives KeyMouse its variable resolution (72-400dpi), and controls its operating modes and user options.
- KeyMouse has a "dynamics accelerator", a three-stage speed detector which gives the mouse movement a natural 'feel'.
- □ The mouse arrow can be locked to move only vertically or horizontally, making it much easier to edit individual pixels. draw straight lines, or align images accurately.
- □ The KeyMouse package includes a MicroDesign and ProSCAN upgrade disc, which contains the very latest versions of the programs to include the KeyMouse drivers.



the most powerful graphics software ever written for the PCW: the transformations shown here are only a small sample of what can be done with this remarkable program. It can bend, twist, rotate, and do just about anything else with graphics files from MicroDesign2, ProSCAN, Stop Press, the Desktop Publisher, or Masterscan. TWEAK is only available on the Creative Technology Utilities Disc, which costs £24.95.

THIS ADVERT WAS DESIGNED AND PRINTED USING A PCW WITH TWEAK, MICRODESIGN2 + PROSCAN SOFTWARE AND AN HP LASERJET PRINTER

| ProSCAN (PCW)            | £184.00 |
|--------------------------|---------|
| MicroDesign2 (PCW)       | £62.00  |
| KeyMouse (PCW)           | £54.95  |
| Utilities Disc (PCW)     | £24.50  |
| MicroDesign2 (PC)        | £72.00  |
| Extra Fonts Discs (each) | £16.00  |
| Parish Library (2 discs) | £21.00  |
| Maps Library (2 discs)   | £21.00  |
|                          |         |

ALL PRICES ARE INCLUSIVE OF VAT AND POSTAGE, AND ARE SUBJECT TO CHANGE WITHOUT NOTICE.

#### CREDIT CARDS WELCOME

GRAPHICS AND FONTS DISCS AVAILABLE FOR PCW AND PC VERSIONS

## **UPGRADES**

MD2-PC FROM PCW £50 ..FROM PC VERSION 1 £30 REGISTERED USERS ONLY

UTILITIES .....£5 (PLEASE RETURN YOUR ORIGINAL MASTER DISC)



10 Park St Uttoxeter Staffs ST14 7AG TEL 0889 567160 FAX 0889 563548

CREATIVE TECHNOLOGY

Only including VAT and p&p. Suitable for the Amstrad PCW 8256, 8512 and 9512

# ONEY MANAGER P

Now even more powerful, more friendly, and more useful !!!

#### Be your own accountant!

# Control your finances the easy way!

Money Manager PCW provides individuals, businesses and professional people with a simple yet powerful way of managing their financial activities. All transactions can be entered easily and then presented in a wide variety of reports, ranging from a detailed listing of expenditure for tax purposes to summaries showing, for example, how much money has been spent on petrol or phone bills in a chosen period. Reports can be printed as text, sent to a datafile for further processing or presented in graphical form.

The program includes many helpful features, such as pop-up claculator, context-sensitive help windows and macro comands. The Money Manager package has over 25,000 users in the UK alone. It is the ideal program for people who find that traditional accountancy programs are too complicated, unwieldy and time-consuming for their requirements.

- Any number of data files: Personal, Business, Accounts etc.
- Budget and cash-flow forcasts which may be updated
- 12 months per file, up to 500 entries (transactions) per month
- Move a file forward a month at a time when required
- All options selected from the main menu
- Up to 20 user-defined accounts: Bank, Cash, Visa, Savings etc.
- Up to 50 user-defined classes of income and expenditure
- A reference of up to 6 characters for each entry
- Your own descriptive text of 18 characters for each entry
- All the codes are displayed on-screen whilst entering data
   Add, modify and delete existing entries at any time
   Quick insertion of standard entries and standing orders
   Entries can be sorted into date order at the touch of a key

- Single character 'mark' for extra reporting selectivity
   Statements showing each entry in detail with running balance
   Reports may show classes merged into logical groups
   Spreadsheet type table showing class totals in each month
- Report showing class totals for each account
- Bar chart for up to 4 selected categories
- Pie charts of up to 20 selected 'slices'
- Detailed bank statement reconciliation with running balance

- Totals for each class of transaction for any period
- Report of monthly income, expenditure and cash-flow etc. Report of account and class totals (eg profit & loss)

- Account statistics monthly max, min, average, balance etc.
  Automatic calculation of VAT, with multiple rates if required
  Detailed VAT reports showing taxable, VAT and gross amounts
  Summary VAT statements in the same format as a VAT return
  Simply ignore VAT features if they are not required
  Print any report to built-in (or separate) printer

- Print any report to built-in (or separate) printer

  Print any report to a file for word-processing (eg in Locoscript)

  Data search facility to find 'lost' items

  Built-in text line editor for data entry

  Horizontal and vertical scrolling of screen reports

- Pop-up five function multi-line calculator with memory
- Macros to record and replay user-defined reports
- Context-sensitive help windows appear at the touch of a key Automatic creation of back-ups for data files
- You can choose which disc drive to use for data on a PCW8512
- Comprehensive 64 page indexed manual Two sets of sample data for practice and familiarisation
- Free and indefinite telephone support

To receive your copy of Money Manager PCW by return post phone us now with your credit card number, or write to us at the address below enclosing your cheque for £49.95



081 743 9792 8am to 10pm, 7 days a week Connect Software Ltd., 3 Flanchford Rd., London W12 9ND







# **The Good Software Guide**

These pages provide a comprehensive guide to the Amstrad PCW software. Published in three monthly parts, this time it's the turn of Word Processors (including Desk Top Publishers), Accounts/Payroll packages and Utilities. We've set out to cover every important piece of software we could lay our hands on, and to give you enough information to decide whether they are suitable for you. All software will run on both the 9512 and the 8000 series machines, though the former's daisywheel printer cannot print graphical output. The selection isn't comprehensive, but the software listed here represents what we think is the best of that currently available. As well as a brief summary of what they do, the main Plus and Minus points for each program are listed -

## **Word Processors**

Word processors are at the heart of the PCW world. The native package, of course, is LocoScript, but several others are available. Their main function, of course, is to handle text - but there are many features added to that which are individual to each program.

#### PROTEXT/POCKET **PROTEXT**

£59.95/£29.95 Arnor • 0733 68909

The best CP/M wordprocessor. Fast at moving around large files, and packed with features. Works with LocoScript keys too. Has a good spelling checker, a lightning fast word counter and a very powerful mailmerger. 'Pocket Protext' is a stripped down version - essentially the same word processing features, but no spell checker, mailmerger, or two column printing. Specify which machine you have when buying.

#### PLUSES . MINUSES

- ▲ Complete with spell check/word counter
- ▲ Packed with features, eg. calculate facility, text editor for writing programs, 'print to screen' option etc.
- ▲ Lets you work with two documents at once
- You can do all of CP/M's functions without leaving Protext
- ▲ Very fast at moving around, doing exchanges and so on
- ▲ Extremely powerful and flexible mailmerger
- ▼ Forces you to learn another new set of control keys to use it

#### **TASWORD 8000**

£24.95 • Tasman • 0532 438301 • 8000's only

Simplifies document planning by minimising dependency on layout procedures. Allows quick and easy access to parts of text by existence of a marker system. The 'Search' and 'Find/Replace' facilities are simple to use, but very thorough.

#### PLUSES . MINUSES

- ▲ Easy to use
- ▲ Excellent mailmerge and label-printing

#### **EASY LABELLER** £29.95 (plus VAT) • M.A.S.S. • 0603

Labelling program which stores your names and address list and will print out in label format selected items from it.

#### PLUSES · MINUSES

- ▲ Useful options like printing out current date
- ▲ Good search facilities
- ▲ Printing options for most stationery
- Data needs an entire disc to itself
- ▼ Returning to main menu slows data entry

## **LOCOSCRIPT 2** £29.95 (plus VAT) • Locomotive Software 0306 740606

As bundled with new 9512, the new version of everyone's first word processor. If you know how LocoScript 1 works, you'll have minimal

relearning to do, and it puts right (almost) all the defects of the old version at a rock bottom price. Greek and Cyrillic alphabets, and even lets you define up to sixteen characters of your own design.

#### PLUSES · MINUSES

- ▲ 'Find page' command speeds moving around
- Superb range of foreign accents and symbols
- Can now drive daisywheel and other printers Has DISCKIT's formatting and copying
- built into it New 300-page manual
- Mailmerger and spell checker not included
- Inconvenient for regular CP/M users
- ▼ Still no word counter!
- ▼ Still slow at Find, Exchange and scrolling

#### LOCOSPELL

# £24.95 (plus VAT) • Locomotive • 0306 740606

The ultimate spelling checker for LocoScript users. It is run as a simple menu choice while you are editing a document normally, and you can check either an entire document or only a paragraph. When it finds an error, it suggests a correction. Reasonably fast.

#### PLUSES . MINUSES

- ▲ Runs totally from within LocoScript
- ▲ Can do small sections of a file
- ▲ Suggests alternatives for misspelt words
- ▲ Reformats the text as it makes corrections
- Provides the missing LocoScript word count ▼ Can't remove spellings you don't like
- The manual gets bogged down sometimes
- Slow at scrolling the dictionary window

#### LOCOMAIL

#### £29.95 (plus VAT) . Locomotive 0306 740606

As a mailmerger for LocoScript, it's difficult to see how anything could be better than this. It runs directly from LocoScript, and can process any LocoScript commands. Has many advanced features and is highly recommended for all LocoScript users.

#### PLUSES . MINUSES

- You don't have to run it from CP/M
- Prints LocoScript text formatting commands
- Automatically rejustifies paragraphs Can insert numeric calculations into letters
- ▲ Can read data from ASCII files
- Large manual, with example files on disc
- ▲ Poweful database-style selection procedures

  ▼ Need separate program to sort and filter Need separate program to sort and filter addresses before a print run

#### **PROSPELL**

#### £29.95 • Arnor • 0733 68909

A stand-alone spell checker for use with almost any wordprocessor that runs on the PCWs. Reads LocoScript, WordStar and ASCII files, and allows you to make corrections directly, view the context, change the dictionary etc. Specify which machine when buying.

#### PLUSES . MINUSES

- ▲ Checks LocoScript and WordStar and ASCII documents directly.
- ▲ Displays the context of a suspect word

- ▲ Can edit misspellings directly from Prospell
- ▲ Anagram and crossword solvers too

  ▼ Processes files of 15K or more in according
- Processes files of 15K or more in sections

#### NEWWORD II

# £60.83 (plus VAT) • NewStar Software • 0245 265017

NewWord exploits the WordStar market by doing the same job better. It uses much the same key commands as WordStar and will even edit documents prepared under WordStarComes with a spelling checker, and the on-screen help is slightly better than WordStar's, though the keystokes are still as obscure

#### PLUSES . MINUSES

- ▲ Does everything WordStar does, even reads WordStar files
- Spelling checker included
- Can un-erase words and lines
- Onscreen help better than WordStar's
- Full reformatting of text within mailmerger ▼ Weak on use of keypad and printer support
- ▼ Like WordStar, formatting troubles and obscure commands

#### LABEL PRINTER

#### £25.00 • Microdraw • 0622 685481

Similar to Easy Labeller if not quite as powerful. Usual features of a labeller and you can store comments with each label's data.

#### PLUSES . MINUSES

- ▲ Menus simple easy to get going
- ▲ Fast data entry
- Can store comments with each entry
- No import or export of data
- ▼ Data needs an entire disc to itself

#### LOCOKEY

#### £14.95 (plus VAT) . Locomotive Software • 0306 740606

This successor to LocoChar is a keyboard customiser which means that any key can be made to produce any letter. The program will reproduce any one of the sixteen LocoChardefined characters.

#### PLUSES • MINUSES

- ▲ Handles any combination of accent and character
- Is fun and easy to use
- Will only be of limited use

#### **ANSIBLEINDEX PLUS** £34.95 • Ansible Information • 0672 62576

The upgraded version of the LocoScript document indexer. Type in your LocoScript document as normal highlighting the words to be indexed with a LocoScript (+RV) code. The program will compile an alphabetical list of entries complete with the appropriate page number. A friendly, useful little package.

#### PLUSES . MINUSES

- ▲ Don't need to convert files into ASCII files
- Word counter also included
- Runs with both LocoScript 1 and 2
- One index can be used for several files
- Indexes can be edited on screen
- ▲ Index entries can be inverted; instead of 'mutton pie,' for example, 'pie, mutton.

## Accounts

'Accounts' covers far more than just the balancing of income and outgoings. Many of the programs are specific to some application, and they range from the simple to the extremely complex, with prices to match,

#### VITAL PROCESSOR SERIES

# £39.95 each • Vital Software 0732 810330

Series of three programs designed to look after your money and your assets. The Savings Processor handles a portfolio of stocks and shares; including your 'net worth' like a balance sheet. Insurance Processor makes an inventory of all your possessions and put a value on them. Income Processor helps you keep tabs on your incomings and outgoings.

#### DI LISES . MINUSES

- ▲ Can complete inventories room by room
- You have to be keen to do all the research
- It can be time-consuming

#### **DIGITA BUSINESS** CONTROLLER

£69.95 • Digita International 0395 270273

Not a full accounting system, but an easy-to-use package. Nominal ledger already set up and you can be up and running in minutes. No aged creditor/debtor lists. Upgraded to include VAT handling procedures. Ideal for small business.

#### PLUSES . MINUSES

- ▲ Delight to use with a very good manual
- ▲ Financial ratios can be included in reports

#### **BOOK-KEEPING** AND ACCOUNTS

£69 (with invoicing, £80.50; with invoicing and stocks, £92) • Manx Tapes • 0624 813071

Recently updated suite of programs advocating a very traditional style of double-entry bookkeeping. Useful demonstration disc also supplied with more than 200 example accounts.

## PLUSES · MINUSES

- ▲ Solid, traditional approach to double-entry book-keeping
- ▼ Program doesn't make full use of the PCW
- Screen prompts not always that helpful
- Written in BASIC, so prone to sluggishness

#### MONEYWARE **ACCOUNTS** £249.00 (plus VAT). Compact Software Ltd 0628 777456

Another large, integrated package consisting of sales, purchase and nominal ledger together with invoicing. Available on larger micros using the same format as on PCWs, so ideal for users planning to upgrade hardware.

#### PLUSES . MINUSES

- ▲ Audit trails are an auditor's dream
- ▲ Data can be exported to other packages
- ▲ Superb prepayment facility

- ▲ Can run a number of companies separately
- Lots of disc swapping necessary
- Can be slow it runs in Mallard Basic
- Quirks in cash allocation routine and account code system

#### M.A.P. INTEGRATED ACCOUNTS

# £249+VAT • MAP Systems 061 624

A powerful package moved on to the PCW at a fraction of its cost on larger micros. A little cumbersome but few significant problems. An integrated suite with the same five modules as Camsoft, supplied on four sides of disc. Can't run on an unexpanded 8256.

#### PLUSES . MINUSES

- ▲ Very good audit trails
- ▲ Sales/purchase ledgers can run over different periods
- ▲ Handles prepayments and accruals
- Able to print full management accounts
- ▼ Needs a lot of disc swapping

#### SIMPLE ACCOUNTS II £79.00 (plus VAT) • Cornix • 0234 219969

The perfect accounts package for the small business for its simplicity of operation, and the limitation of its features to the essentials. Features include a useful cross-reference facility to collate expenses on individual contracts. Comprehensive VAT section.

#### PLUSES . MINUSES

- Simple, easy-to-use program
- Can correct errors
- Keeps track of debtors and creditors
- ▲ Useful search facility

#### **CAMSOFT PSIL** £180.14+VAT • Cambrian Software • 0766 831878

Five integrated packages: Sales, purchase and nominal ledgers, invoicing and stock control. It falls somewhere between the Sagesoft package and the larger MAP and Compact systems. Easier to run than the larger packages since all the software can be squeezed into the M drive. Good package for a small company.

#### PLUSES . MINUSES

- Already set up for 8256 or 8512
- ▲ No need for pre printed stationery
- Excellent sort and search facilities
- Invoices shown on screen
- Need to input full five-digit account codes
- No final accounts reports on nominal ledger

#### **INBUSINESS**

# £160.00 • Cavalier Software 049 264 1548

A comprehensive integrated package with 'Intact' accounts and 'Instock' stock control, available separately for £59.95 each. Easy to run and powerful enough for most businesses

#### PLUSES . MINUSES

- ▲ Other packages (eg: 'Teleadd' address book) can be added
- Sophisticated pricing and order features in Instock section
- Flexible accounts, traps most mistakes.
- Forward planning facility in stock control
- ▼ Manual gives a confusing list of options

#### SMALL BUSINESS **ACCOUNTS**

£60.83 (plus VAT) • NewStar • 0245 265017

Using the split-screen method, the promptdriven program leads you, painlessly through the hazards of double-entry book-keeping, Useful demo files. It also handles VAT easily.

## PLUSES . MINUSES

- ▲ Excellent system of screen prompts
- Good demonstration files
- One of the easiest double-entry systems
- Manual is really for the PC

#### SAGE POPULAR ACCOUNTS

#### £87 • Sagesoft • 091 2131555

An integrated accounts packagewith purchase, sales and nominal ledgers. For another £50 you get Accounts Plus with invoicing and stock control. Aimed at small companies with the emphasis on easy set up. Some limitations, eg. the package cannot cope too easily with rapidly increasing numbers of customers and suppliers.

#### PLUSES . MINUSES

- ▲ Tidy, logical screen layouts and menus
- ▲ Easy to set up and use
- ▲ Good audit trails and VAT reports
- ▲ Can produce formatted trial balances Restrictive account numbering system
- Only single Nominal ledger and VAT
- analysis per item Does not cater for settlement discounts
- Won't print remittance advice slips
- ▼ Cramped on 9512 printer need 17 pitch daisywheel

#### M.A.P PAYROLL £199+VAT • MAP Systems • 061 624

#### **PLUSES · MINUSES**

- ▲ Can amend and re-run at any stage (even after printing)
- ▲ Cash analysis broken down to departments ▲ Prevents re-use or amendment of leavers
- Can hold up to 40 standard hourly and weekly wage rates
- No SSP calculation facility
- ▼ Programs necessitate a lot of disc swapping
- No printed record of automatic tax code changes

#### SAGESOFT POPULAR PAYROLL

£61 • Sagesoft • 091 2131555

#### PLUSES . MINUSES

- ▲ Any or all employees payroll can be rerun at any stage
- Full pay history available for all employees and leavers
- Calculates average pay for holidays etc
- Limited number of additions/deductions
- Doesn't print a list of cheques
- No analysis of additions/deductions

#### **COMPACT MONEYWARE** PAYROLL

£199.00 (plus VAT) • Compact Software Ltd 0628 777456

#### PLUSES . MINUSES

- ▲ Supplied with test data
- Change employees tax codes after budget
- Can run payroll for several companies
- Data transportable to PC version
- Must be run from the master discs
- Needs input form and check calculation for each employee
- Once payslips are printed can't be changed
- ▼ Most expensive payroll program

### **CAMSOFT PAYROLL** £60+VAT • Cambrian Software • 0766

#### PLUSES . MINUSES

- ▲ Full payslip displayed on screen. Any item can be amended
- Facility for freehand narrative on payslips
- ▲ Using M drive speeds operation
- Built in on-screen help facility Search-sort routine for output to screen,
- Uses alphanumeric employee codes
- Screen menus a bit untidy and sometimes difficult to follow
- No listing of cheques

printer or disc

#### **CHECK ACCOUNT TWO** £14.95 • Molesoft • 0372 275053

Keeps track of personal household accounts. Stores details of up to four different accounts per disc, records withdrawals and deposits and gives you current balance at any time. Shows both minimum and maximum balances over previous or current months. Comprehensive interest-calculating options.

#### PLUSES . MINUSES

- ▲ No double-entry book-keeping or VAT returns to wrestle with
- Very easy to use
- ▲ Carries last month's spending levels forward into this month
- ▲ Tiered interest rate option available

#### **EASI-ACCOUNTS** SYSTEM

## £23.95 • Arctan Computer Ventures 1 Foxwell Square, Southfields, Northampton NN3 5AT

Aimed at the small business man or the very organised home user. Works on the traditional system of ledgers with up to 500 entries (or individual transactions) allowed per ledger.

#### PLUSES . MINUSES

- ▲ Comprehensive List and Search facilities
- ▲ Manual assumes you know nothing about accounting and is, on the whole, well-written
- Not a particularly easy package to use
- You would have to be exceptionally well organised to use it

#### MONEY MANAGER PCW £49.95 • Connect Software Ltd • 081 743 9792

Designed for individuals, small businesses and clubs, who might find a larger package daunting. The program concentrates on income and expenditure, each file covering a 12-month period with up to 500 entries per month.

#### PLUSES . MINUSES

- ▲ Up to 20 different accounts catered for
- ▲ Up to 50 transaction codes help categorise income and expenditure
- Needs little computer or accounts expertise
- Information can be displayed in the form of a bar or pie chart
- ▼ Too limited for bigger businesses
- ▼ Over-featured for domestic use

# **Utilities**

Utilities is a broad category, containing all the software that won't fit elsewhere. In practice, this means two main functions - programs for unusual applications and those which perform useful and varied 'housekeeping' tasks.

#### 2 IN 1 (VERSION 2) £29.95 • Moonstone Computing • 041 941 3120

Useful utilities aimed mainly at PCW to PC/MSDOS file transfer. Can manipulate PCW files and discs. Sometimes slow in copying, but an excellent way of carrying out the functions. The only package to collect all these functions in one program. Formatting, which comes with a verify option, is very fast. Easy to use, and user friendly .Far more amenable than the original CP/M commands.

# PLUSES . MINUSES

- ▲ Easy to use
- ▲ Formats very quickly
- ▲ Good documentation
- ▲ Not too expensive ▼ Copying is slow

#### XFORMAT2

#### £9.95 • Moonstone • 041 941 3120

A handy utility to give more space on a disc. Space is created during disc formatting; the program is used in conjunction with CP/M, and gives extra room on both A & B drive discs.

#### PLUSES . MINUSES

- ▲ 19k extra for A drive discs.
- ▲ 78k extra for B drive discs ▲ 32 extra A drive entries
- Very cheap for the benefits provided
- ▼ Can't copy and format at the same time

#### **FOREWORD**

# £44.95 • Software Imperative • 0225

A text/ideas pre-processor, essential for anyone producing lengthy, structured pieces of work. You can build your document, moving and inserting blocks with just one keypress (no block definition required). Fast wordcounts and Find and Replace searches of either 'hidden' or 'shown' text units. Drop down menus.

#### PLUSES . MINUSES

- ▲ Versatile Save options
- ▲ Printout facility

941 3120

▲ Works with 'foreground' option

#### **PCW TOOLKIT** £24.95 • Moonstone Computing • 041

A user-friendly data recovery package for the PCW. Provided you can find the contents of the damaged file, roll out a new one, sector by sector, on M using PASTE.

#### PLUSES . MINUSES

- ▲ Perfect for the complete novice
- ▲ Clear, confidence-boosting manual ▲ Can recover data varying in amounts from a few bytes to a complete disc.

## PRO-PERFORMER

# £59.90 • Electromusic Research 0702 335747 • 8000s only

The only real musical add-on for the PCW. Easy to use software runs on CP/M, has a wide variety of powerful features and is icon-driven. Sophisticated recording facilities. You can save compositions as tracks, songs or performances.

### **PLUSES · MINUSES**

- ▲ Icon-based screen
- ▲ Lines can be recorded independently or in an arrangement
- ▲ Punch-in editing facilities
- ▲ Slow recording/ fast playback facility
- ▲ Step-time recording for strict in tempo lines Tracks can be looped (made to repeat)
- Manual glosses over arrangements Can't edit notes individually ▼ No musical notation anywhere

# **JOB ESTIMATING &** PRODUCT COSTING

£99.90 (plus VAT) each Cornix Software • 0243 219969 Programs aimed at helping small businesses keep track of costs. It breaks down costs for a product or job into a series of costing lineswith quantity and price per component. Analyses

#### profit margins andgives customer printouts.

- **PLUSES MINUSES**
- ▲ Excellently-written manuals ▲ Changes in material costings instantly
- reflected in all quotes Neat way of doing on-the-spot quotes

# Can't add new components to a description **TEMPDISC 8.2**

£21.00 • Thurston Techniques 0395 277496 • 8512s only Ready-made templates for use in LocoScript.2. Find the template to suit your requirements and fill in the details. Vast selection of borders for

## personalising labels and envelopes.

- PLUSES . MINUSES
- ▲ Has files for LocoMail's invoicing facilities ▲ Vast range of templates available

# BRAINSTORM £29.99 • Brainstorm Software Ltd • 0895 677845

Improved version, for easier use on the PCW. Works as an 'ideas processor'; you throw your ideas in any order and then use the program to rearrange them and impose a structure. Printed manual now comes with the package.

# PLUSES . MINUSES

- ▲ Encourages structured thinking
- Versatile; many different editing facilities
- ▲ Results can be fed into a word processor

#### SUPER-LINDEX

£14.95 • Festival Computing • 0274 613300

An indexer for LocoScript, which can provide not just the name, but also the the 'Edit Identity' description of the file. Works with CP/M files, too. Can import data into LocoFile.

#### PLUSES . MINUSES

- ▲ Screen as well as printer output ▲ Can be turned into LocoFile data
- ▲ Easy to use, and flexible ▼ Documentation poor
- **FORMS BOX**

#### COMPENDIUM £19.95 • Disc Design • 0473 625471

Fully compatible with LocoScript 1 and 2, this disc provides 70 different kinds of forms for home and office use

#### PLUSES . MINUSES

- ▲ Very easy to use
- ▼ Will only print out on A4 size paper

#### **POOLS MASTER**

£19.95 • Intraset Ltd • 02572 76800

Helps you select the numbers to cross on your pools coupon taking its recommendations on the recent form of each team or simply on the basis of sequence prediction (numbers that provided draws in the past).

#### DI LISES . MINUSES

- ▲ More accurate than the newspaper pundits
  ▼ Entering form results every week is tedious

#### LOCOFONTI

£29.95 (plus VAT) • Locomotive Software (0306 740606) 8000s only

New fonts for LocoScript. Good selection of 'handwritten' styles. The Roman and Standard fonts are more practical. The new characters reproduce well. A further six fonts are available, including Old English and flowing script, on LocoFont II for £14.95.

#### PLUSES . MINUSES

- ▲ Eight new fonts, one coming for free
- ▲ Each style supports accents and characters.
- Can't mix styles in one document
- ▼ Limited to a 16 dot pattern

#### PS HEADINGS

£11.95 • Orb Systems • 081 690 8534

Updated version with major improvements in speed. A must for Protext users who need high quality, large print for letter headings. Can alter details such as shading, underlining and triplestrike printing.

#### PLUSES . MINUSES

- A Easy to use
- ▲ Range of styles
- ▲ Good manual
- ▼ Only one font (although in two sizes)

#### **GILLIGAN'S GUIDE** £29.95 - 49.95 • NG Gilligan • 0629

A geographic information program based on the Ordnance Survey system. Given a 15 square mile area; it will list all the places included on the map in alphabetical order with their grid references. Gives information about the sites and will locate them on the map. Gives details on sites of special interest.

#### PLUSES . MINUSES

- ▲ System can be interrogated in a number of interesting ways
- ▲ Breaks sites down into areas of specific interest
- ▲ You can commission you own made-tomeasure guides

## STAR TRACK+ £19.95 • Discovery Software • 081

Updated version. allows you to plot on screen all 88 constellations and about 600 stars, as well as the moon and planets. You can view from

any point on the globe, and at any time from 1000 to 2999 AD

#### PLUSES . MINUSES

- ▲ Helpful practice exercises in good manual
- ▼ No print option
- ▼ Screen display a little on the small side

## **POCKET DATADATE**

#### £19.95 • A4 Ideas • 0249 815082

Invaluable for date-related trivia fans. Works under LocoScript 2, and even prints filofaxsized text. Ideal for quizmasters

#### PLUSES . MINUSES

- Program recently updated
- Very informative
- ▼ Only works with LocoScript 2
- ▼ Documentation currently on disc

### **PCW SUPERDOS**

#### £29.95 • Encyclasoft • 0270 811890

Fills the gap between the friendliness of LocoScript and sparsity of CP/M. Has the ability to copy multiple files at once and can back up an entire directory.

#### PLUSES . MINUSES

- ▲ Printable 'notepad' facility
  ▲ Makes CP/M less daunting to use
  ▼ Need to leave SuperDOS
- Need to leave SuperDOS for some functions

#### **FACTOTUM**

# £14.95 • Tudor Systems • 0622 861775

The combination of LocoScript 2, LocoFile and LocoMail gives access to ancatalogue of data. It has a diary with special date reminders, address and telephone list and tax planner

#### PLUSES · MINUSES

- ▲ Works from LocoScript
- Very efficient letters section
- Poor presentation
- ▼ Won't work with an unexpanded 8256

#### SUPERZAP

#### **Public Domain • Various suppliers**

A disc editor with a difference. One key commands and menus for easy operation. You can examine the structure and contents of the M Drive. Lack of print function is irritating

#### PLUSES . MINUSES

- ▲ Simple one key commands
- ▲ Fast 'find' function
- ▲ Menu driven
- No copier
- ▼ Numbers can only be entered in hex

#### DATADIARY £19.95 • A4 Ideas • 0249 815082

More PCW-generated diary inserts for use at home or in the office. The program works from

within LocoScript. Inserts feature year to calendars, month at a glance planners and page a day formats. Now includes the dATAWEEK package - a new, fully indexed week-to-a-page Locofile application.

#### PLUSES . MINUSES

- ▲ Buy it at any time of the year and you will be supplied with next 12 months' supply
- ▲ Pre-prepared 9512 version available
- ▲ A solid, no-frills product that's easy to use

# **INVESTOR II**

# £39.95 • B & BB Software • 0437 721690

Records and analyses the ups and downs of up to 600 shares on the stock market. From the trends displayed the health of the whole market is calculated and future moves predicted. You can keep track of your own shares and you are given advice on what to do with them. A good investment all round.

#### **PLUSES • MINUSES**

- A Records share-holdings, dividends and cash
- ▲ Dividend printout for tax purposes
- ▲ Four methods of share price analysis
- ▲ Calculates capital gains tax liability
- ▼ Graphs are small

# MINOR SHORTCOMINGS IN MANUAL PERSONAL TAX PLANNER

#### £24.95 • Digita International • 0395 270273

Simple program which stores relevant details of your year's tax affairs and prepares your tax return. Can, for example, find out whether married couples would be better assessed separately or not. Personal Tax Planner is updated every year ,following the budget.

#### PLUSES . MINUSES

- ▲ Needs a minimum knowledge of the tax law
- ▲ Keeps all your tax details in one place
- Limited application only used once a year
- ▼ Program updates cost £10

#### KNIFE PLUS £19.95 • Hisoft • 0525 718181

An essential tool for retrieving data from corrupted discs. Knife Plus will copy all uncorrupted sectors on to a fresh disc which can be patch up without risking the original.

#### PLUSES . MINUSES

- ▲ If boot sector damaged, will copy good boot sector on to disc
- Requires knowledge of basic disc structure
- Manual not written for beginners

#### WISE ONE

#### £34.95 • Swallowsoft Publications • 0420 63793

An expert system. You input rules and information and it becomes an 'intelligent' program which can, for example, do simple diagnoses according to symptoms you type in.

#### PLUSES · MINUSES

- ▲ Power to be genuinely useful
- ▲ Elementary arithmetic
- ▲ Help screens can be set up for the user
- Obscure way of writing rules need programming instinct
- ▼ Manual dry and academic

#### **FLIPPER 3**

#### £29.95 • Software Imperative 0225 425315 · 9512/8512 only.

A stronger version of an invaluable PCW tool. Given the right amount of space, you can flip between eight different environments, picking up each in exactly the same place as you left it. Menu-driven for greater user comfort.

### PLUSES . MINUSES

- ▲ Boots machine and then adds environments
- ▲ Can flip between environments in 2 seconds
- Very good documentation ▲ Works with most CP/M programs,
- LocoScript and BASIC
- Can 'save' current environments to disc
- ▼ Be careful of state of printer and disc drives when flipping

#### **SUPER TYPE II**

# £14.95 • Digita International • 0395 270273

Modifies the fonts used by the PCW printer. SuperType has 4 'business' and 'novelty' fonts. It directly alters the relevant files for LocoScript or CP/M, so you only need run it once.

# PLUSES . MINUSES

- ▲ Once installed, you can forget it's there
- ▲ Genuinely useful range of fonts available ▲ All of LocoScript's print size and style
- options still work ▲ Can't mix fonts in the same document

## DAATAFAX

#### Basic version £29.95 (with Microfile £39.95/with mouse £69.95) • Kempston Data • 0234 855666

Used with personal ring-binder, it keeps track of names, addresses and appointments. Prints out data to fit the average organiser.

#### PLUSES . MINUSES

- ▲ Flexible and easy to use
- ▲ Saves buying inserts
- ▼ Keeping it up to date is tedious

#### **DHCP 12-TRACK** SEQUENCER

£89.99 DHCP 0440 61207

Add-on 'recording studio' for the PCW, consisting of MIDI interface and software. 12track polyphonic capacity

#### PLUSES . MINUSES

- ▲ Fun to use
- ▲ Can cope with quite advanced instruments
- ▲ Cheaper than its competitor
- Tracks can be bounced to enable several tracks to all be put into one
- ▲ Looping can start/end at any bar
- Manual is skimpy
- No editing without re-recording whole track

# THE COMPOSER'S PEN II £87.33 (MusicPad £23.44) • Composit Software 0952 595436

A sophisticated program to write musical manuscripts, complete with time signatures, key signatures and other notation. Changes to the manuscript are simple and it can transpose music into different keys. MusicPad is the cut down version

#### PLUSES . MINUSES

- ▲ Good print quality
- ▲ Allows multi-part compositions
- ▲ Complete range of musical notation
- Transposes from key to key ▼ Slow in use

# DTP

Desk Top Publishing packages combine the manipulation of text and graphics. In reality, they tend to concentrate on the development of pictures rather than text, simply because text can usually be imported from a word processor in an already finalised state, to have its appearance rather than its content adjusted.

# THE DESKTOP

**PUBLISHER** £81.95 (including mouse and interface) • Database

0625 859444 Value for money. Graphics and text boxes can be easily moved around and page layout is clear. You can edit text in the program, using

#### italics. Good range of fonts and graphics.

- LocoScript-like commands to set bold and PLUSES . MINUSES
- ▲ You can edit articles to fit the space
- ▲ Boxes and general layout easy to manipulate Works with three mice or with the keyboard ▲ Good range of fonts and graphics, and you
- can design your own
- ▼ Can't fix size of text boxes ▼ Headlines can look a bit jagged

# MICRODESIGN II £62.00 • Creative Technology • 0889 567160

The ultimate DTP package for sheer printout quality;. Treats words and graphics as being equally important - hence the program's 'integrated page processor' tag. Runs on all

# machines with high quality results.

- PLUSES . MINUSES
- ▲ Has good range of printer drivers
- ▲ Easy and fun to use ▲ Excellent text-editing facilities

# LATE EXTRA £19.50 • Exemplar Designs • PO Box 683, Bath, BA1 1XU

A Stop Press add-on consisting of a collection of 11 fonts that cover the range of type styles and sizes needed to create a balanced page.

#### PLUSES . MINUSES

- ▲ Good range of 11 complementary fonts
- ▲ Can adapt template for own use
- Time-consuming
- ▼ Text needs reducing for best results

# **Cut Printer NOISE** by up to 90%

Noisy Printers are a major source of stress and will significantly reduce the efficiency of you and your colleagues.

AMGARD Acoustic Hood will cut stressful printer noise by up to 90% enabling other tasks and functions to continue during printing.

Not only will you hear the phone ring but you will actually have two-way conversations again!

AMGARD Acoustic Hood features a 'see-through lid' with 'memory hinges' for easy access plus provision for single, continuous and automatic sheet feeders where fitted.

AMGARD Acoustic Hood comes assembled ready to use with a model to suit your printer and at a price that won't make a big noise on your budget, e.g. AMSTRAD PCW9512 £99, with sheet feeder £139

AMGARD Acoustic Hood, the professional solution for all printers. Phone for price and delivery for yours.

Free delivery applies to UK mainland. Prices exclude VAT. ORDERING: CALL our 24-hour Hotline NOW





PLC Gov't Educational & Dealer Orders Welcome or send payment to: or FAX 0993-883333



A FULL RANGE OF COMPUTER FURNITURE & ACCESSORIES IS SHOWN IN OUR CATALOGUE WHICH IS AVAILABLE FREE UPON REQUEST

#### NEW RANGE OF DRIVES FOR 8256, 8512 OR 9512

Our 3.5" Add On Disk Drives offer the best value and keep your options open by being able to transfer it to another computer if you change your computer. For £10.00 extra you can have a 1.44 Meg drive which although it will not work 1.44 Meg on the PCW could be invaluable if you later upgrade to a PC/AT.

| 3.5" B drive in new smaller steel case  | £80.00 inc.  |
|---|--------------|
| 3.5" B drive to run with existing B 3"  | £95.00 inc.  |
| 5.25" B drive in steel case             | £95.00 inc.  |
| 5.25" B drive to run with existing B 3" | £110.00 inc. |

DATADUAL 8 AND DATADUAL 9:- Dual Action Drive A or B 3.5" Disk Drive. It's a 'B' Drive and a spare 'A' Drive in one for just £120.00

The ultimate in drive versatility. There is now only one version for 8000 series and one for 9000 series which can be switched to work with one or two internal Disk Drives.

For a single drive PCW this 3.5" drive will act as drive 'B' or at the flick of a switch it will be drive 'A'. You can copy your start of day disk to 3.5" and use the drive to boot up the machine then change the disk to a double density/double sided 706K (or 720K) data disk and switch it to drive B. Lights on the front of the 8000 series drive show which side of the 'A' disk you are using.

For a two drive computer, by using three switches you can use the computer as 2 internal 3" drives, or as drive 'A' 3.5" and drive 'B' 3" or drive 'B' 3.5" and drive 'A' 3". You can copy a 3" 'A' disk to 3.5" or vice versa or copy a 3" 'B' disk to 3.5" or vice versa. A side select switch allows 8000 series users to use both sides of a disk.

To fit, remove the back - expose the rear of the drives - unplug three plugs and plug in four - replace the back - no cutting, filing or soldering.

3" DS/DD disk drive fitted to a carrier to go into a 5.25" disk tray on a PC, complete with interface board and T-Read software £200.00

| Amsoft CF2 disks £16.50 for 10      | 3.5" disks £6.00 for 1 | 0      |
|-------------------------------------|------------------------|--------|
| 2 in 1 CPM - DOS transfer progra    | m for PCW              | £29.95 |
| 2 in 1 when purchased with a driv   | e                      | £24.50 |
| PCW35 CPM-DOS transfer progra       | am to run on PC        | £12.50 |
| 22 disk shareware (registration \$2 |                        | £5.00  |
| 8256 to 8512 memory upgrade         |                        | £20.00 |
| Flipper 3 -                         |                        | £34.95 |
| AT style 102 key keyboard           |                        | £78.00 |
|                                     |                        |        |

PRICES ARE INCLUSIVE OF VAT AND U.K. CARRIAGE

Unit 9, Bondor Business Centre, London Road, Baldock, with HERTS. SG7 5NG. Telephone (0462) 894410



A Complete Service in Computers & Software.

Miles Better Software 219/221 Cannock Road, Chadsmoor, Cannock Staffordshire,WS11 2DD

#### LOCOMOTIVE

| Locoscript II + LocoFile4     | 4.90  |
|-------------------------------|-------|
| Locofont2                     | 9.95  |
| Locofile (8)3                 | 34.95 |
| Locofile (9)3                 | 34.95 |
| Locomail 2 (8)2               | 29.95 |
| Printer Support Pack2         | 9.95  |
| Locoscript 2 + Locospell (8)3 | 39.95 |
| Locofile + Locomail (8)4      | 9.95  |
| Locoscript 2 (8)2             | 29.95 |
| Locosort                      | .8.95 |
| Keyboard Disk (8)2            | 29.95 |
| Keyboard Disk (9)2            | 29.95 |
| Locoscript PC 1.511           | 5.00  |
| Locolink                      | 29.95 |
| Locofont 24 PC4               | 19.00 |

### **DESKTOP PUBLISHING**

| AMX Stop   | Press   | + Mouse | 70.00  |
|------------|---------|---------|--------|
| AMX Stop   | Press   |         | 36.00  |
| Micro Desi | ign II. |         | .44.95 |

#### **ACCOUNTS**

| Sage Popular Accounts      | 70.50   |
|----------------------------|---------|
| Sage Popular Accounts Plus | .105.75 |
| Sage Popular Payroll       | 49.95   |
| Sage Popular Invoicing     |         |
| Sage Cash Trader           | 70.50   |
| Money Manager PCW          | 44.95   |
| SBA Cash                   | 45.95   |
| Stock Market 2             | 34.95   |
| Digita System 3            | 31.95   |
|                            |         |

# Telephone: (0543) 466577/8/9 SPREADSHEETS

| Supercalc | 245.00 |
|-----------|--------|
|           |        |

| DATABASE              |       |  |
|-----------------------|-------|--|
| Master File 8000      | 36.95 |  |
| D Base II             | 34.95 |  |
| Sage Popular Retrieve | 49.95 |  |
| Datastore II          | 27.95 |  |

#### UTILITIES

| The same and the same of the s |       |
|--|-------|
| Daatafax   | 29.95 |
| Hisoft Pascal 80   | 34.95 |
| Hisoft Devpac 80 V2  | 34.95 |
| Hisoft Knife Plus  | 19.95 |
| Pascal MT +  | 29.95 |
| Perfect Touch  | 24.95 |
| Super Type II (8)  | 19.95 |
| VIDI PCW   | 74.95 |
|  |       |

#### **GAMES**

| Sporting Triangles  | 16.95 |
|---------------------|-------|
| Colossus Chess 4    | 19.95 |
| Scrabble Deluxe     | 22.95 |
| Jewels of Darkness  | 11.95 |
| Silicon Dreams      | 11.95 |
| Knight Orc          | 11.95 |
| Pawn                | 19.95 |
| Corruption          | 19.95 |
| Trivial Pursuit     | 22.95 |
| Fun School 3 (each) | 19.95 |

Just a selection from our vast range of computer software.

All goods sent within 24 hours. All prices include VAT and Delivery.

Please make cheques, postal orders payable to:

"Miles Better Software"

Acceptable and the place of the plac

Access/Visa orders please phone for immediate dispatch. Visitors Welcome.

VISA

# 3 1/2" DISK DRIVE only £79.95 + £4.50 p&p

**ALL PRICES INCLUDE VAT** ★ We use the POST OFFICE'S guaranteed NEXT DAY DELIVERY ★ PHONE IN YOUR CARD NO. TODAY - RECEIVE YOUR DRIVE TOMORROW

The external 3 1/2" B drive does everything the normal internal 3" B drive does. Our top brand TEAC drive needs no extra power supply and is very easy to connect to the 8256, 8512 & 9512 computers via a single ribbon cable and is supplied with full step by step fitting instructions

External switchable 3 1/2" additional B drive £95.00 inc. p&p

10 3 1/2" Disks FREE with drive

## MOONSTONES 2 IN 1 PCW/PC FILE TRANSFER IS NOW ONLY £29.95, BUT BOUGHT WITH DRIVE £26.00

This powerful utility enables the free transfer of files to and from PC Computers and compatibles. Reads, writes and even formats MSDOS disk on ALL PCWs.

## 256K MEMORY UPGRADE - £18.00

Turn your 8256 into an 8512 with our easy to fit upgrade kit. Full fitting instructions supplied.

#### SPECIAL OFFER

| Locomail       | £8.95 |
|----------------|-------|
| 10 31/2" Disks | £6.50 |
| Plus £1 p&i    |       |



# COMPACT MICROS

177 Sunnyside Lane, Otley Road, Bradford BD3 0JB Tel: 0274 640589 (tech 602180)





Trade enquiries welcome

# Tipoffs

November was the month Guy Fawkes saw fireworks - the same sort of glaze will come over your eyes when you see some of the hints in this month's TipOff pages. Rockets, Roman candles, Catherine Wheels - and some sparklers too - in the form of tips on LocoScript, BASIC, Protext, CP/M, MicroDesign and much more besides!

And if you fancy seeing your tips light up the sky, why not send them off to us at Tipoffs, 30 Monmouth Street, Bath BA1 2BW - and don't forget that that is Freepost.

So break out the Hot Dogs, stack up the bonfire, light the blue touch paper and stand well clear for an amazing, spectacular, pyrotechnic display of PCW brilliance.

# **Shadow dropping**

In Brian Pearce's Tipoff in your September magazine, he showed how to make a 'dropped shadow' using TWEAK. As I have not got TWEAK, I tried to do it using MD2's own facilities. My results seem to look exactly the same as Mr Pearce's! 1. Type in your text in the design

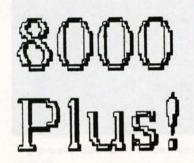
1. Type in your text in the design screen section of the program. Choose a typeface that is big and chunky.

When starting a new line type

[SHIFT]+[ALT]+DOWN CURSOR once, and [SHIFT]+UP CURSOR twice to position the text.

2. Now rewrite your text, using the same rules, but in OUTLINE mode ([EXTRA]+[8]).

Now follow Brian Pearce's steps.But when trying to put the uninverted image on top of the inverted image, try



The proof of the pudding. A remarkable improvement on the basic 'boot' typeface, even when it is printed at this small size

using 3 steps up and 3 steps across.
4. Once you have followed step 6, the writing may need a bit of ZOOM work.
Tom Everest, East Grinstead.

## Two columns more

I have devised a method of setting up and printing out two columns of text using the PCW 9512 and LocoScript 2 without feeding the paper through twice or resorting to LocoFile.

Although the method requires a little more observation of the cursor and a reasonable degree of accuracy (to avoid too much editing) it is relatively simple.

Set the left hand margin at 1, and the right-hand margin at 100. Set a simple tab at 55.

Key in the left-hand column of text, inserting a manual [RETURN] at about 45 at the end of each line.

For the right hand column, move the cursor to the [RETURN] symbol at the end of the left-hand line, and press [TAB]. At the end of each line (you should type up to, or as close as possible to the right-hand margin without causing word wrap) in the right-hand column press [EOL], then [TAB] and continue keying the text.

When you come to print out, be sure to select "Landscape" for this type of layout.

#### Mrs B A Hawkins, Reading

8000 Plus: There are other ways of printing columns in LocoScript, but this is one of the simplest. The only problem is that it is very difficult to edit the text once it is there. You could use the same process for the 8000 series. Of course, you won't be able to print out across the page, so select sensible margins, and put the central tab at about 48. And don't select the 'Landscape' option - your printer cannot use it!

#### Yes you Scan

As a budding artist, do you have problems printing your scanned copy?

This is the secret. Having scanned a picture, you should then save it on your 'picture' disc and exit to CP/M and load "Master Paint". Load your scanned picture into "Master Paint" and edit it until the picture then fits into the visible screen. Resave the picture on your 'picture' disc, exit to CP/M, load "Master Scan" and you are ready to print the picture.

This method gives a near true size and shape of your scanned image. V White, Basingstoke

# Wheel Progress

In your answer to Ian Morris' query (Wheel Power, issue 60) you stated that there was no way of mixing two types of print wheel in the same line. There is, and this is how you can go about acheiving it.

When you come to the word in your document where you would like to change type style:

- Leave a blank in the sentence equal to the length of the word.
- 2. Press [f4] and change the line spacing to zero.
- 3. On the following line, fill in the missing word exactly below the blank and then press [f4] to return to the original line spacing.

When it comes to printing out the document the procedure outlines in issue 60 should be followed - ie, press the [PTR] key while the printer is printing out the line with the blank space in it, and when it stops change the wheel. Pressing [EXIT] allows the printer to continue.

However, since only one word is wanted in the new type face, the [PTR]



You can mix typestyles on the 9512 by printing the same line twice, leaving a gap the first time, and plugging it the second time  $\frac{1}{2}$ 

When you want to highlight something in LocoScript, and you've only got a 9512, it would seem to be something of an impossibility. But it is not that difficult - all you have to do is type a line and leave out the word you want to <code>emphasise</code>, then fill in the gap by typing [\*]LS 0 and plug the gaps left in the line above. Finish that line with the command [\*]LS 1 to go back to normal printing. If you want to add codes, you can - but make sure that you still use the right number of characters in normal script. Check by turning off the codes. Then comes the tricky bit - changing the wheels!

The final print out is worth the trouble. You could even mix different language wheels

key must again be pressed before the printer finishes typing it out and the original wheel put back. [EXIT] to resume printing. Takes some concentration, but the effect it great! Neil Hanley, Wood Green, London

#### **Catch phrase**

When I settle down to write in LocoScript, I always find that I need the same specific words and phrases many times throughout the document. Therefore it's best to [COPY] each word or phrase you know you will type many times, then [PASTE] them back at the right moment. It's amazing how much time you can save. Joe Unwin, Hastings

8000 Plus: And if you're going to use them in more than one document, why not save them to disc using the 'Save Phrases' option if you are using one of the LocoScript 2 versions?

#### **Protext numbers 1**

I do a lot of report writing on my PCW using Protext. This involves comparing monthly results - and having to check that I haven't duplicated in September what I said about February!

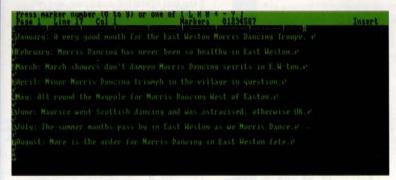
Protext has a very good way of jumping around the a document to check these references - number markers. You can introduce them into the text by typing [ALT]+@, followed by a number. Pressing [ALT]+[+] (that's the plus key with the square round it) will automatically find the previous number up the document, and [ALT]+[-] the next one down the document, regardless of what order the numbers actually come in.

However, if you want to find a

particular number (if I've marked February with '2', and I'm editing September), all you have to do is type [ALT]+@ followed by 2, and the screen will automatically be redrawn with that number and its associated text in the centre. You can keep a track on which numbers are current by glancing at the top of the screen - all the markers in use are listed there. Simply use the 'delete' key to remove them from the text.

Much quicker and less frustrating than using the [PAGE] or [ALT]+cursor keys - and another reason why I think Protext beats LocoScript hands down.

Nigel Baxter, Carlisle



You can add number markers into your text and move around it much faster, pinpointing accurately the places that you want to move to

# Easy printer defaults

I'm sure John Eggeling's solution to the printer defaults problem is much more elegant than mine, and faster. But for those who (like myself) are a bit scared of SID.COM, here is an idiot solution that works well.

Boot CP/M, and on the A: prompt

type SUBMIT RPED [RETURN]. You will have to make sure that you have SUBMIT.COM on the relevant drive. The screen will respond (in two stages) telling you that you are into the BASIC small file editor RPED. Press [f1] to edit existing file. Type in PROFILE.SUB [RETURN] [RETURN]. When you get PROFILE.SUB on the screen, you will see that each line is preceded by a < prompt. Arrow down to below the last line, type <[RETURN] then type paper c f66 g2 16 d [EXIT][EXIT]. From now on, every time that you boot

If you get an error message when you press [f1], press [f3] instead, call the file PROFILE.SUB, and just put the one command into it - the line paper c f66 g2 16 d.

CP/M you will automatically be

informed that you are set up for continuous stationery.

Alternatively, you could just use the command paper c f66 g2 16 d from the A> prompt, at any time. Tony Cooper, Pierric, France.

## Make a date

Q: How can I date stamp my files? Susan Goodall, Bradford, West Yorkshire

8000 Plus: CP/M isn't particularly helpful when it comes to this, but if you are prepared for a bit of fiddling, you will find that it is possible. First you will have to prepare the directory of your disc, to open it for date stamping. Then you will have to set the details that you want recorded. Finally, you will have to set the date. 1. Boot up CP/M. 2. Put the side of your CP/M disc which contains the file INITDIR.COM

into drive A:. If you have two drives, put the disc whose directory you want set into drive B:. Type (however many drives you have) INITDIR B: [RETURN]. Single drive system owners will have to follow the onscreen instructions about disc swapping. Answer 'yes' to the question which the computer asks.

3. With the drive initialised, find the side of your CP/M discs which contains SET.COM. Decide whether you want your files stamped by access date (which records when the file was last used), or date of creation. You can also have the file marked with its latest update time if you wish, in combination with either of the above. This records when the file was last altered, rather than simply when it was last used. Type SET B:[access=on ,update=on] [RETURN], substituting create=on for the access command if you so wish.

4. To check it is working, log onto a disc with DIR.COM on it, and type DIR B: [full]. You should see the that space has been provided for the extra attributes on your B: disc.

5. To set the date, put the disc containing DATE.COM in the drive, and type DATE without [RETURN] followed by the date in the format mm/dd/yy. You can add the date in the format hh:mm:ss. For instance: DATE 10/20/91 10:32:00. Alternatively, use the DATESET.BAS BASIC program published in last month's 8000 Plus. It would be worth making either of these part of your PROFILE.SUB file, so that you are reminded to set the date every time you turn the machine on. 6. Now every time that you create, access or update a file, there will be a

permanent record of it. 7. If you want to use the date stamp facility over all your discs, you will have to use INITDIR to initiate each one, and then SET to make sure that each will give you the same piecea of information about the disc.

Unfortunately, date stamping is not possible with LocoScript files -LocoScript doesn't keep track of the date and time, and has no facility for putting them on to the disc, either.

## **Protext numbers 2**

A couple of points about your guidance for Protext users in your birthday issue. There is no need to go into CP/M to display all the files on your disc. Create an EXEC file saying: cat 0|13| cat 1|13|cat 2|13|... and so on, through to ...cat 13|13|cat 14|13|cat 15|13|. A drive letter can be included (eg cat 1b etc). I keep three such files in the M: drive: this one, called x, and two others called a and b. Then x m:x [RETURN] reads the default drive; the others read a:and b: drives respectively. The display can be halted by pressing [PTR] and resumed with [EXIT].

'Loco to Protext" (p66) omits to say that you can get lists of files on any user group (even any drive) without leaving the one you're in, simply by typing e.g., cat 3a [RETURN] to get files in group 3, drive A:. Likewise, you can use COPY (the command, not the [COPY] key!) to save a file anywhere on the disc.

Its also very easy to make up and use your own database files with Protext's mailmerge facility. Just make records without any commans; use accents for apostrophes or quotes, and stick to the >RV command.

And hey, Protext offers you two ways to inspect a document: the output from PS is often easier to read than which is produced by TYPE. Rev John Peck, Woodbridge, Suffolk.

# **Basic positions**

I wonder if you could answer a few questions for me:

1) In BASIC, how can you get a program to start on a blank screen.
2) Again in BASIC, I would like to put the message part of the line 'INPUT "What is your name ";A\$ in the centre of the screen.

3) And I would like to put to then centre the message "HELLO";A\$, depending on the length of the name. Craig Amy, RAF Bruggen.

8000 Plus: 1) Use the line PRINT CHR\$(27)+"E". If you want to move the cursor to the top left hand corner

at the same time, add +CHR\$(27)+"H". Lots of programmers turn this into a 'string' or a series of characters:

cls\$=CHR\$(27)+"E"+CHR\$(27)+
"H", and then put PRINT cls\$ every
time they want the screen cleared.
2&3) This program will do both:
10 cls\$=chr\$(27)+"E"+chr\$(27)+"H":
print cls\$

20 def fnat\$(x,y)=chr\$(27)+"Y"+chr\$ (32+x)+chr\$(32+y)

30 print fnat\$(15,40);:INPUT "What is your name ";A\$

40 L=LEN (A\$):y=(84-L)/2:print cls\$ 50 print fnat\$(15,y)"Hello ";A\$

Line 20 is the best way of positioning text in BASIC - type this at the top of the program, and then replace x and y with the number of rows DOWN the screen and the number of columns ACROSS that you want printing to start. In line 30, it's 15 rows down, and 40 columns across.

Line 40 uses LEN to find out how long A\$ is - and then uses that information to position the message in the middle of the screen. The number 84 comes from the width of the screen (90) minus the length of "Hello". Now you can simply add the length of A\$ and divide by 2.

## **Protext numbers 3**

Have you ever had to produce a sequence of text involving consecutive numbers, like this:

Number 1:

Number 2:

Number 3:

Number 4:

...up to... Number 100:

Protext users have an easy way of producing those numbers automatically. First make a document consisting of 100 colons, each on a separate line (use blocks and the [COPY] command, of course!).

Then go into command mode and type **NUMBER** [**RETURN**], followed by **A** for 'add'. Give the 'first line' as 1 and the 'line increment' as 1. You now have a document looking something like

1:

2 : ...up to... 100 :

Just use [EXCH] to change all occurrences of [SPACE]-colon to just colon (specify 'agc' as options), then use it to change occurrences of [RETURN]s (entered as exclamation

mark-full stop) to [RETURN]'Number'-[SPACE] (entered as
exclamation mark-full stop-'Number'[SPACE]) again specifying 'agc' as
options. Saves a lot of time!
Basil Pigg, Bath

8000 Plus: Just as time saving would be this mail merge routine:

>wf m:numbers >sv number=1

>rp

>wf on

Number &number&:

>wf off



Type this in - make sure you are accurate - save it as 'numbgen', and then go into command mode and type ps (or p if you want a print out now). You'll see the numbers being written to a file called 'NUMBERS' on the M: drive. Copy this to disc and use it

>sv number=number+1 >sv number=number[W1]

whenever you want it.

>un number=101

Regulate the number of numbers (if you see what we mean) by changing the 101 in the last line of the listing to the correct number plus one.



Can you tell the difference? Both methods brought about very similar results.

# Diary on Disc

I have organised my 365 page diary (issue 54, March 1991) into a 12 month diary, with each month having a file to itself. All you then have to do is highlight the correct month from the disc management screen, press E for Edit. When the document arrives on screen press [f5] type the number of the day you require and up comes the selected day for that month.

To make the diary, load LocoScript (I am using LocoScript v2.28) and insert the disc with DIARY.91 on it into drive A:, press [f7], then create 12 files called January.91 to December.91, in group 1. Now highlight the file DIARY.91, and press E to edit the file. With Tuesday 1 January at the top of the list, press [COPY] and mark to the

latest date in that month, press [CUT] and select a block number

Press [EXIT] and select the 'Finish Edit' option, which will re-save the DIARY.91 file, minus the January section. Erase the DIARY.91 Limbo file to clear up your disc.

Highlight the JANUARY.91 file, press E and then [PASTE] in the block which you have just saved. Save this new file to disc and again erase the Limbo file - this time the JANUARY.91 limbo file.

Repeat this process for every month, and there you are - an easily accessible diary on disc, very easy to use and very cheap - and it will only take you a few minutes to put together! Harvey Clayworth, Mansfield

## LocoSpace

Sometimes my LocoScript 2 refuses to print out, telling me that the printer and document do not match. I can't work out what that means!

E Brown, Cambridge

8000 Plus: It sounds as though you have not got enough room on your drive M:. When it boots up, LocoScript throws several printer files on to the M: drive, and uses these to print from. If it can't find them, it gets confused, and claims that neither the character style or the character set are valid.

It could be that you are using Flipper 3 - I've reproduced the effect in this way - and the best solution is to redefine your environments so that LocoScript has more room.

# Life after BASIC

A few issues ago you published a way to run a BASIC program from CP/M, by simply adding the name of the program after the BASIC command in CP/M (eg BASIC GAME1). Is there an equivalent way to run another CP/M program from BASIC? I tried putting the name of a program after BASIC's SYSTEM command (eg SYSTEM LOGO) but it just said syntax error.

Andrew Dornan, Fareham

8000 Plus: No, at least, no simple way. The best way would be to have a SUBMIT file that included the BASIC program and the program that you wanted to run after it.



Suppliers of Discount Software since 1984

\* \* \* HOW TO ORDER \* \* \* All prices include VAT & delivery
Next day courier from £2.00 - ask for details Make cheques or postal orders made payable to:

MJC SUPPLIES (PLS)

Unit 2, The Arches, Icknield Way, Letchworth, Herts, SG6 1UJ

Or telephone with Access or Visa debit and credit cards on:

0462 - 481166

Overseas Customers: phone or write for quotation **Educational Bodies, Local Authorities, Govt.** Departments: send written order FAX US ON 0462 670301

#### **PCW UPGRADES**

tegniche PCW102 REPLACEMENT KEYBOARD

102 key alternative keyboard for all PCW's offering 8 function keys, but more importantly, a keyboard that feels like a keyboard RRP £93.94 OUR PRICE £59.95 Next day coourier just £3.00

#### 8256 MEMORY EXPANSION £16.95

Internal expansion comprising solderless chips and complete easy to follow fitting instructions.

| SCA 768K Rampack for the 8256<br>SCA 512K Rampack for all PCWs<br>SCA 1.5Mbyte Rampack | 103.9 |
|--|-------|
| SERIAL/PARALLEL INTERFACE<br>SCA PROFESSIONAL<br>SCA PRO PLUS                          | 49.95 |
| PRO 8256 serial/parallel interfaces  | 07.0  |

# WORD PROCESSING

Please state exact model when ordering. All Locomotive products are for use with Locoscript 2 only unless otherwise stated.

| Locoscript 2               | 29.95 |
|----------------------------|-------|
| Locospell                  |       |
| Locomail                   |       |
| Locofile                   |       |
| Locoscript 2 and Locofile  |       |
| Locoscript 2 and Locospell |       |
| Locofile and Locomail      |       |
| Printer Support Pack       |       |
| Locofont (packs 1 and 2)   | 29.95 |

#### PROTEXT PCW

The fast alternative to Locoscript. Includes nail-merge, spell checker and fast word count mail-merge, MJC PRICE JUST £39.95

## **DATABASES**

| MASTERFILE 8000   | 32.95 |
|-------------------|-------|
| Locofile          | 31.95 |
| At Last Plus      |       |
| Cornix Card Index |       |

# **BUSINESS & FINANCIAL**

MONEY MANAGER PCW

The best selling finance package for small business or personal use.

RRP £69.95 OUR PRICE £44.95

| Cornix Simple Accounts 2       | 59.95 |
|--------------------------------|-------|
| Simple Accounts Entry Changer  | 19.95 |
| Cornix Invoicing               | 44.95 |
| Invoicing Stock Control Module | 39.95 |
| Cornix Job Estimator           | 69.95 |
| Stockmarket 2                  | 35.95 |
| Cracker 2 Turbo Plus           | 35.95 |

#### SUPERCALC 2

New package from Computer Associates

#### MINI OFFICE PROFESSIONAL

Complete suite of Word Processor, Comms, Spreadsheet (with graphics), and Database programs supplied with manual and John Hughes "All in One Mini Office.." book £25.95

# DESKTOP PUBLISHING AND GRAPHICS

#### **PRO-SCAN**

The high quality scanner for all PCWs. Based on a 400dpi hand held scanner & offering 4 scanning modes, this is the ideal partner for £169.00

#### **MASTERSCAN**

This low resolution budget scanner clips to the 8256 /8512 print head and is suitable for scanning simple line drawings into your PCW for use with any of the DTP programs.

of the DTP programs.

PLEASE CALL FOR ADVICE BEFORE ORDERING 

#### MICRO DESIGN 2

The best DTP program available for the PCW. Drives 9 & 24 pin printers as well as deskjets, lasers and bubblejets for top quality output! M.D. 2 Font Library ......24.95

#### STOP PRESS DTP

#### THE DESKTOP PUBLISHER

The entry level DTP program from Database Software Software only ......19.95 with AMX Mouse .....

AMX MOUSE
Suitable for STOP PRESS, MICRO DESIGN 2,
THE DESKTOP PUBLISHER, PROSCAN and most PCW graphics software. Includes mouse based OUR PRICE £44.95

## 9256/9512 Plus OWNERS

At the time of going to press these machines had not been released, and we have not had the oppor-tunity to confirm compatibility of our range. We would therefore ask you to call before ordering products for these models.

## **PRINTERS**

All of the following printers are supplied with the necessary cable for your 9512. If you have an 8256/8512 you will need a suitable interface, such as the SCA Professional at £49.95 and a cable will then be supplied to fit this.

We are happy to give our advice on printers. Please telephone during normal office hours.

STAR LC-20 New model......169.95 PANASONIC KXP-1180 ......159.95 PANASONIC KXP-1695, Fast wide carriage.299.95

#### 24 Pin Printers

| STAR LC24-10         | 209 95 |
|----------------------|--------|
| PANASONIC KXP-1123   | 219.95 |
| STAR LC24-200        | 259.95 |
| PANASONIC KXP-1124i  | 279.95 |
| STAR LC24-200 COLOUR | 299.95 |
|                      |        |

#### EDUCATIONAL

#### **FUN SCHOOL 3**

2 to 5 year olds £15.95 For 5 to 7's £15.95 For over 7's £15.95

| LCL SOFTWARE Micro English (8-GCSE)                  | 19.95 |
|--|-------|
| Micro Maths (12-GCSE)                                | 19.95 |
| KOSMOS language tutors French Mistress (12 to adult) | 15.05 |
| German Master (12 to adult)                          |       |
| Spanish Tutor (12 to adult)                          | 15.95 |
|  | 13.33 |
| Junior Playtime (4 to 8 years)                       | 9.95  |
| Schools Out (7 to 14)                                | 9.95  |
| Ultimate Sums (5 to 15)                              | 9.95  |
| TYPING TUTORS, by lansyst                            |       |
| Crash Course   | 18.95 |
| Two Fingers to Touch Typing                          | 18.95 |

For further information on the above send SAE for the MJC Supplies Educational Supplement

#### **CONSUMABLES**

#### AMSOFT CF2 DISKS **OUR LOWEST EVER PRICES**

Suitable for all PCW drives. 5 for £7.95

10 for £14.95 20 for £28.95

## **CONTINUOUS PAPER**

SIZE, WEIGHT/NO. SHEETS 500 1000 2000

| 14, 90 gsm         | 9.95 | 16.95 | - |
|--------------------|------|-------|---|
| \4, 80 gsm         |      | 14.95 |   |
| 14, 70 gsm         |      | 13.95 |   |
| 11" x 9.5", 60 gsm |      | 10.95 |   |

#### **RIBBONS**

8256/8512, 14 metre fabric 3.95 7.00 each two for 2.95 3.95 9512 continuous fabric each 9512 Amstrad brand Film each 17.95 five for 39.95

#### GAMES

| Buran                     | 14 95 |
|---------------------------|-------|
| Clock Chess 89            |       |
| Cross Grid                |       |
| Head Coach v3             |       |
| Home Entertainment Centre |       |
| Lancelot                  |       |
| Sir Perceval              |       |
| Terracom                  |       |
| Time and Magik            |       |
| Tomahawk                  |       |
| World of Soccer           | 15.95 |

#### **DUST COVERS**

| 8256/8512, 3 piece         | 9.95  |
|----------------------------|-------|
| 9512 without sheetfeeder   | 10.95 |
| 9512 including sheetfeeder | 12.95 |





Card holders can order now on: 0462 481166





# **Designer lines**

When using MicroDesign 2, there must have been occasions when you have wanted to print out a notice of a special size, so that it would fit exactly into a photograph frame, or similar.

There is a simple way to arrange this, but make sure you are in the no.1 format (256k A4 upright) - the default format. If you're in the wrong format, use the NEW option to get to it.

Go to the 'Design' section, and cursor to the top left hand corner of the screen. You will find that the cursor co-ordinate figures at the bottom right hand corner of the screen are at "0". If you now draw a line across the page from here until the left hand of the two co-ordinate numbers changes to 120, and then draw a line down the page until the right hand co-ordinate changes to 109, you will find that when you print out, both these lines are exactly one inch long.

Unfortunately, when you press the cursor key and space bar at the same time to draw the line, the cursor coordinate figures at the foot of the screen disappear, so you will to stop drawing the line for a few seconds, so that you can check how far you have got. You can, of course, draw lines of any length that you want using multiples and fractions of the figures which are given above.

You can actually start drawing the figure anywhere on the screen, as by pressing [EXTRA]+0 (the number nought!) the cursor co-ordinate figures

at the foot of the screen will both change to zero, and make your life a whole lot easier!

In case you wish to operate in any of the other formats, full details are

given below - I have included metric measurements as well.

Note that the figures given for the sideways formats are as the appear on the screen, ignoring the fact that the

|                  | Across Page<br>1 inch | 1 cm | Down Page<br>1 inch 1cm |    |
|------------------|-----------------------|------|-------------------------|----|
|                  |                       |      |                         |    |
| 256k A4 upright  | 120                   | 50   | 109                     | 43 |
| 256k A4 sideways | 109                   | 43   | 121                     | 48 |
| 256k strip       | 240                   | 95   | 217                     | 85 |
| 64k A4 upright   | 60                    | 24   | 54                      | 21 |
| 64k A4 sideways  | 54                    | 21   | 60                      | 24 |
| 64k strip        | 120                   | 47   | 107                     | 43 |

# This is a box exactly 2 inches by 2.

paper is lying sideways.

I hope that this 'TipOff' will be of service to some of your readers.

Frederick Wren, Eastbourne

8000 Plus: We're sure it will be! There are a number of uses you can put this to - leaving room for a particular picture, spacing text on a page, checking the size of characters as well as the ideas suggested above.

Now you can determine exactly how big a box is going to be before printing out.

## LocoSearch

Can you help me. I am using a PCW 8256 and LocoScript 2. I have amassed lots of related files in the same group on a disc - can I use LocoScript 2 to cross reference the files, or use the find command to search a disc for a particular word or paragraph? David Cheeseman. **Wootton Bassett** 

8000 Plus: You can't use LocoScript for this, unless you want to open each file individually and then do a [FIND] operation. However, there is a Public Domain program that will do what you want. It is called SUPERZAP - give PCW World (0834 66269) a ring to talk about it. Alternatively, why not type in David Gregg's VOYAGER.BAS program, published in the Listings pages of July's 8000 Plus.

# **Easy PC printing**

According to the LocoScript PC handbook, it is not possible to use the PCW 8256 printer with the PC. However, I have managed it. Firstly, connect the PC and PCW with an RS232 and serial cable. Secondly, the PCW must be prepared from CP/M with the command SETSIO 150 h off. On the PC, install and integrate a printer, defining it as Epson FX-80 (call it PCW if you like) and prepare it for the serial port, at 150 baud.

Finally, with your CP/M disc still in the PCW, type PIP LST:=AUX:,

and you can use the PCW as a printer for LocoScript PC.

To interupt PIP, you can press [STOP] on the PCW, and then send something to print on the PCW - for instance, go into Direct Printing on the PC and send a space - and an error message will appear, which will clear PIP and leave your PCW ready for its next CP/M task.

Rafael Pla-Lopez, Valencia.

8000 Plus: This tip does work - but it's a bit temperamental. You have to do

everything in the correct order, and make sure that there is paper in the PCW printer. Make use of the PC's [f9] 'Resume printing' option if it fails to function straight away.

We could persuade the PCW printer to obey the bold and italic commands, but not the double size ones - and, more importantly, it didn't print in high quality. Nor could we persuade it to quit, even using Direct Printing.

On the other hand, Mr Pla-Lopez had managed it, so it's possible.

# Star performance

In the August issue of 8000 Plus, Bill Weeks of Cavalier Software stresses that the Star LC10 printer is "the worst printer I could have selected to use CP/M programs". I have a Star LC 24-10 printer linked to my PCW9512. Can I use MicroDesign 2 with this printer with/without problems.

Paul Wigmore, Newcastle upon Tyne

8000 Plus: Yes, and without problems. In fact Creative Technology told us

that it's the best 24 pin dot matrix printer that they have used - especially when printing in colour. And to assure any LC10 owners out there, they also say that they have never had any problems with that printer, either although they stress that they can only speak for their products.

Of course, they still say that the best possible printer for MicroDesign would be either a laser jet or bubble jet, but in the meantime, it doesn't look as though you're going wrong.

# **High Octave**

There is no mention in the MusicPad manual of octave transposition. However, the program can be made to do it quite easily.

Press [f6] and follow the usual procedure until the key signature menu appears. Then cursor down to the key that the passage to be transposed is in and press [RETURN]. The music will now be automatically transposed up or down an octave.

**Geoff Price** Newcastle, Staffs

#### **Key sets**

I usually, but not always, use Protext when I boot up CP/M. Typing "Protext" is a chore, though - is there a way of setting up the computer so that it I can press just one key and get Protext?

Harold Barnes, Leeds

8000 Plus: Yes, there is. Load Protext, and type PROG to get to program mode. Now type this in: E #81 "PROTEXT^M" 02 N "^'#81" and save it as NEWKEYS.PRO. If you have a PROFILE.SUB file on your start up disc load that into Protext - if not create a new file and save it as PROFILE.SUB - and add the line to it: SETKEYS NEWKEYS.PRO. Save this back to your Start of Day disc. Make sure that your Start of Day disc also has SETKEYS.COM and SUBMIT.COM on it. Now reboot your system with CP/M. If you want Protext, make sure the Protext disc is in the drive and press [f1]. If you don't, then continue as normal. Whenever you want Protext, and you are at the A> prompt, all you now have to do is hit [f1].

## **SID's Security**

Here's an alteration that you can make to LocoScript 2 using SID to print yourself a message on boot-up - and a message which won't affect the Locomotive and Amstrad credits!

- 1. Boot up CP/M
- 2. Run SID
- 3. Put your LocoScript start of day disc in the A: drive, and at the # symbol type ra:j228loco.ems [RETURN]
- 4. After a short time the # symbol will return. Type d0b70 0bb0 [RETURN].
- 5. On the screen you will see an array of numbers in the centre of the screen, and text down the right hand side of the screen. Look for the the start of the text which says 'For the latest information, see the document "READ.ME".
- 6. Counting from the left of the text column, count the number of letters or symbols to the start of the word "For". Count across the same number in the central column, and make a note of the code you land on you should be on the cr 46, which is the hex number for "F. On version 2.28 of LocoScript, this is the first number in the column. 7. At the # symbol type s0b70
- [RETURN]. 8. SID will reply with the number and the code, the same code 46 that starts the message. Now type "followed by whatever message you wish to enter. The only limitation is that it must be exactly the same length as the message it is replacing - in this case, 53 characters (letters and spaces). Use extra spaces to make up any shortfall in your message. Press [RETURN]. 9. SID replies with another code: press a full stop and then [RETURN] to show that your message is finished. 10. The # symbol returns; now type in wa:j228loco.ems [RETURN] to write

the adjusted file to disc.

11. Exit SID by pressing [STOP]

12. Boot up LocoScript. You may or may not see your new message at the bottom of the screen. If you do not, create a file in group 0 called "READ.ME" - there doesn't have to be anything in it - and reboot the computer with LocoScript. Your message will now appear.

One obvious use for this tip is security - if your name and address is printed on the screen every time you boot up, it would be very difficult for anyone else to prove that it was theirs! Or it could be that you want to identify a disc for some other reason.

Or you could just want to have your computer be friendly to you first thing in the morning!

Michael Wheatley, Derby

8000 Plus: A couple of other thoughts: don't use your best start of day disc for this - make a copy of it first, and if successful, make that copy your new start of day disc.

As it stands, this tip works for LocoScript 2.28. Other version owners will have to firstly find out what the name of their .EMS file is - under CP/M, put the LocoScript disc in the A: drive and type DIR [RETURN] to find that out - and substitute it as appropriate. It will always be 'Jsomething.EMS'.

You may also have to search for the "For the latest information..." text, and make sure you only overwrite that. Do this by typing d0100 c7ff [RETURN]. Keep an eye on the text as it scrolls past - and hit [STOP] when the text appears. Note the code number at which the text starts, and follow steps 6,7 and 8. Write the file to disc under the same name as you found it.

#### **Date order**

My LocoScript 2 is used mainly for correspondence. I indicate the date by year followed by month, e.g. 899=Sept.89, 90N=Nov 90, although computer afficianados may prefer to go hexadecimal, "1,2,...8,9.A,B,C". All letters to the same recipient are listed on the Disc management screen in correct order of date. If I write more than one letter to the same person in one month, I cheat by using the next month for the second letter, e.g. 912 was written on the 3rd Feb 91, 913 on the 15th Feb - but at least they're still chronological!

E.Rosentiel, London

## **Masterful Misfire**

I can't seem to make the Masterfile tip "Masterful!" from October's edition work. I keep getting "A:J\*.EMS?". Is there something wrong with my machine?

H C Ewer, Dublin

8000 Plus: No, but there is something wrong with ours - a couple of vital instructions got omitted. Here is the full tip:

Start up your PCW by inserting a CP/M disc. When the A> appears type PIP [RETURN]. At the '\*'t ype m:=a:j\*.ems [RETURN] followed by m:=a:submit.com [RETURN]

followed by

m:profile.sub=con: [RETURN] (yes, that's con:, not com:) followed by the sequence

mf8000 [RETURN] and [ALT]+Q together and [ALT]+Z together.

Now insert your copy of the Masterfile master disc in place of the CP/M disc, and type a:=m:\*.\*[RETURN]. This will overwrite what you have just written - but don't worry.

Now press [SHIFT][EXTRAJ[EXIT]

Now press [SHIFT][EXTRA][EXIT] together. The machine will reboot, and automatically present you with Masterfile.

# **Quick BASIC**

I'm sure that you've occasionally given hints on how to speed up BASIC editing, but I can't seem to find them. Can you repeat them?

Stephen Le Mesurier, St Helier, Jersey

8000 Plus: With pleasure. Instead of writing PRINT every time you want something on screen, type? instead - if it is part of a program, you will see that BASIC automatically converts it back to "PRINT". Don't think, though, that you might be able to sneak extra characters into the line this way. The maximum number of characters per line in BASIC is 255, and you won't get any more in by using "?" - you can try, but when BASIC converts the "?" to "PRINT" it will cut excess characters off.

Instead of typing REM each time you

Instead of typing **REM** each time you want a REM statement, use '(a single quote mark) instead.

To move quickly around a line, use the [FIND] key, followed by a character. The cursor will immediately jump to the next occurence of that character in that line. Unfortunately, it won't jump backwards.

If you want to go to the end of the line, hit [FIND] twice.

On the other hand, if you want to chop the end off a line, position your cursor over the first character you want deleted, hit [CUT] twice.

Finally, if you want to recall the last command press the left cursor key once. The command will then reappear ready to be edited. For instance, if you type PINT 2+2 [RETURN] by mistake, and get a syntax error message, hit the left cursor key before you do anything else, then add the R to PRINT, and press [RETURN] again.

Be warned: this only works if you have not pressed any other key in the meantime - so don't rely on it.

# **Back up Oh Master**

LocoScript users shouldn't forget to make a back-up copy of their start-of-day disc. It is itself, of course, a copy of the original program disc, but it will almost certainly have been updated with, say, alterations to the standard phrases, printer default settings, paper sizes and templates. The LocoSpell user dictionaries is also likely to have been changed.

A corrupted start-of-day disc can be readily replaced with a further copy of the program disc - but it could take a lot of work to tailor this new, virgin copy to the user's specific requirements.

David Landers, Northumberland.

# J'n'J Design

70 Alderson Rd, Liverpool, LIS2HL



Star Disc No 1 Now Only \$8.99



Picture Ref Supplied. .cut files only 53 Various Clips

Send cheque for £8.99 to J.Skelhorn at the above

PCW REPAIRS
STIMATES! \* NO STANDARD CHARGES! \* 48 HOUR SERVICE! \*

AMSTRAD REGISTERED REPAIR CENTRE

#### **SPARES**

8256/9512 KEYBOARD ..... £69.95

ALL OTHER PARTS AND ACCESSORIES AVAILABLE, PLEASE CALL.

Just send your computer to us with a cheque for £8.00 and we will supply you with a written estimate with no obligation. (This £8.00 covers return postage should you not wish to accept our estimate).

Collection service available locally (weekends).

#### HAWKWELL ELECTRONIC SERVICES

2 WYMANS COTTAGES, MOUNT BOVERS LANE, HAWKWELL, HOCKLEY, ESSEX SS5 4JB

TEL. SOUTHEND ON SEA 0702 207593 (24 HOURS)

We repair AMSTRAD PCs, PCWs, MONITORS and PRINTERS. All repairs carry a 3 month warranty.

#### SECOND USER EQUIPMENT

We buy and sell AMSTRAD PCs, PCWs, MONITORS and PRINTERS or we

can sell them on your behalf (you get a better price). All units sold are reconditioned and have a 3 month return to base warranty. Optional 1 year extended warranty available. Cash, cheques, Visa and Mastercard accepted.

PHONE US NOW FOR DETAILS

# SUREDATA

TELEPHONE: 081-902 5218

DEPT 8+, UNIT 5, STANLEY HOUSE, STANLEY AVENUE, WEMBLEY, MIDDLESEX HAO 4JB (opposite Dorothy Avenue).

Second User HOTLINE: 0831 616519 (after hours)

## AnsibleIndex Plus

The only LocoScript indexer. AnsibleIndex Plus extracts from your documents (with correct page numbers):-

> WORDS, PHRASES AND INVERTED PHRASES HEADINGS AND SUB-HEADINGS THEMES AND SUB-THEMES CHOICE OF ALPHABET SORTING CROSS-REFERENCES

The index is compiled automatically from this information, and can be edited, printed, etc, through LocoScript itself.
Includes AnsibleCheck, the fastest LocoScript word counter. And Grease, dreaded in

high places, is as galling as ever. Plain-English manual included.

Request our info sheet for more details. The price includes VAT, postage and after-sales support. No increase with the 1991 VAT change, and no extras!

#### **Ansible Information**

94 London Road, Reading, Berks, RG1 5AU New telephone and fax number: 0424 719739.



POOLSWINNER

COURSEWINNER

# Letta-Head



THE program for designing and printing Letter Heads Plus labels Plus posters Plus tickets Plus invoices Plus receipts Plus... Version 2.0 is complete with lots of version 2.0 is complete with lots of enhancements and is now a top-flight graphics design package for the PCW, at an economical price. Just check these facilities, compare them with the other design packages, then look at the prices!

- Fonts: Mix 14 fonts in 81 sizes
- on screen.

  \* Styles: Italics, bold & proportional spacing.

  \* Edfont: Edit existing or create
- your own fonts.
  GRAPHICS
- \* Boxes: Any size, 9 thicknesses.
  Inverse contents (white on black).

  \* Lines: Freehand and straight lines, solid or user-defined pecking.

  \* Circles: Any aspect ratio for regular circles or ellipses. Arcs.

  \* Textured fill: Solid or user-defined should.
- shade.

  \* Zoom: Pixel by pixel screen editor for those delicate little bits.

  \* lcons: Create your own clip art, use the extensive library or send us
- your hard copy for scanning.

#### UTILITIES

- \* Scroll: Fine tune your design by moving portions to precise position.

  \* Rotate: 90 degree rotation steps for printing on design edges.

  \* Clipboard: Copy or cut to clipboard, paste or merge from clipboard.

  \* Files: Integral file manager. Save
- cippoard.

  \* Files: Integral file manager. Save designs to disc, load or merge from disc. File compression for disc

# economy. PRINTING

- \* Spooler: For speediest printing. \* Numbering: Incrementing sequencer for numbering receipts, tickets etc.
- \* Stationery: Print any number of copies, range of sizes, headers & footers.

  \* Labels: Define size, number wide
- & spacing, print any number.

  \* Posters: Auto-link a series of
- \* Posters. Aud-link a series of designs to produce a poster.

  \* LHPrint: Letta-Head print utility for use with Protext, Flipper etc.

  HELP & INSTRUCTIONS
- \* Menus: Incredibly easy to use
- menu driven system.

  \* Mouse: No mouse required.

  \* Manual: Comprehensive reference manual with tutorial section.

ONLY £27.50! VISA

Bradway Software (8P)

Hillsett, Upper Padley, Grindleford, nr Sheffield, S30 1JA (0433) 30799

Announcing...

WITH ARTIFICIAL INTELLIGENCE

WITH ARTIFICIAL INTELLIGENCE

THE LEGENDARY POOLS PREDICTION AID, Poolswinner, now has artificial intelligence. The latest version of the program, Poolswinner Gold, has the power to learn from the results of its own predictions, constantly adjusting the prediction formula to improve performance.

AUTOMATIC FIXTURE GENERATION: Fixtures for English and Scottish League matches are generated automatically by Poolswinner Gold, which now incorporates its sister program FIXGEN 91/92 (yearly updates are available from Selec).

MASSIVE DATABASE 22000 match database over 10 years.

PREDICTS SCOREDRAWS, NO-SCORES, AWAYS and HOMES Predictions are based on many factors. recent form, the massive database, league standing, goal scoring rates, and draw averages. The user can adjust all parameters.

SUCCESSFUL Selec guarantee that Poolswinner performs significantly better than chance.

LEAGUE TABLES (home & away) are automatically generated by the program as results come in.

as results come in.

UPDATED WEEKLY. Poolswinner Gold is supplied fully updated with all league results from the start of the season - its ready for immediate use.

PACKAGE CONTAINS disc, detailed operating manual and support literature, all you need to start forecasts immediately.

Also available from Selec ...

#### COURSEWINNER V4 £36.50

THE PUNTER'S COMPUTER PROGRAM. Uses artificial intelligence. Uses past form, going, distance, speed ratings, prize money etc. Contains British course statistics - best jockeys, trainers, draw effect etc. Detailed analysis of all runners in a race, with profit. Sophisticated aid to successful betting, with a long pedigree.

## POOLS PERM PLUS £32.50

Perm analyser and checker, complete with 5 years of coupon results and popular perms for analysis. Checks your weekly entry for winning lines, or tests your theories on results over the last 5 years. Reveals all the weeks a bet would have won, and the probable dividend.

#### FOOTBALL FOLLOWER £32.50

Statistical analysis for Football enthusiasts. Tables, fixture lists, sequences etc. Set up for British League football, but can be set up by the user for any league amature etc. Ideal for all fans, league secretaries etc.

All programs are supplied on disc, packaged with detailed instruction manual, and support literature. Formats available:

IBM (3.5" or 5.25")

AMIGA

ATARIST

AMSTRAD PCW

Send cheque / PO for return of post service to ....

Selec Software (Eat. 1984)

62 Altrincham Rd, Gatley, Cheadle, Cheshire SK8 4DP (send for full list of our software)



# ATTENTION PCW USERS

Are you fed up with trying to learn from the manual? Are training courses too expensive? Then you need

#### ZAPLEARN® THE SCREEN BASED TRAINING PACKAGE!

ZAPLEARN's® BASIC WORD PROCESSING COURSE teaches you, in the comfort of your own home, on your own PCW, how to CREATE, EDIT and PRINT documents using LOCOSCRIPT versions 1 or 2. The course is written in PLAIN ENGLISH, so is USER FRIENDLY and EASY TO FOLLOW, and more importantly VERY LOW PRICED, just £27.50 per package, (excl. VAT but INC. postage)

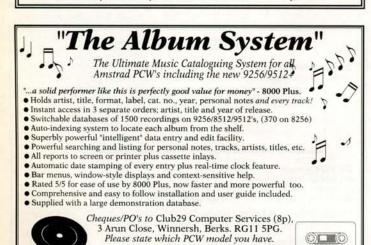
Coming soon, ZAPLEARN® WORD PROCESSING <u>ADVANCED</u>, LOCOFILE, LOCOMAIL (BASIC and ADVANCED), and LOCOSCRIPT PC!

Send details of PCW, (8256, 8512 or 9512), Locoscript version, (1 or 2) and Keyboard type, (standard or Technique PCW 102), with cheque for £32.32, (£27.50 + VAT) to:-

SWORD COMPUTERS, (Dept A81), 32 Kenwood Rd, Bolton, Lancs, BL1 6NA

Please allow 14 days for delivery.

Trade enquiries welcome.



# Don't be blind to new ideas

Our racing programs have shown a good profit for the last seven years.

Strongly recommended in reviews in both Amstrad PCW and 8000 Plus.



Brimardon JUMP FORMULA - uses any daily paper - £30 Brimardon JUMP FORMULA PLUS - needs a racing paper - £40

> Order directly or write or phone for full details **Brimardon Computer Racing Service** 75 Cockerton Green, Darlington DL3 9EG

VISA

0325 288483 £5 reduction in price if you return this advert with your order

SIMPLY THE BEST - BETTER THAN ALL THE REST

# BUSY TO BACK

We all know that we should keep backup copies of our disks but we rarely do. Copying disks with Locoscript 2 or DISCKIT takes a long time and usually involves many disk swops and it is easy to make mistakes; copying files individually is a

Written especially to reduce the time taken to an absolute minimum, **BACKUP** will automatically back up your disks either by copying only changed files or by copying selected tracks, whichever is quickest. **BACKUP** runs as a self-booting "End of Day" disk with triendly LocoScript-like menus and it requires no knowledge of CP/M. It is primarily aimed at LocoScript 2 and CP/M users, but those with only LocoScript 1 will gain some advantage. **BACKUP** costs only £19.95.

Used regularly **BACKUP** will allow you to back up your disks in seconds, in your choice of 2 or 3 generation sets. As well as helping yourself you will also be aiding the charity **BACUP** to help people live with cancer.

Order from: BACKUP DISC (8000) British Association of Cancer United Patients
121-3 Charterhouse Street, London EC1M 6AA
Telephone: 071 608 1785 Fax: 071 253 0123
Please state which PCW you use and number of copies required.
Cheques should be made payable to: BACUP Trading Co. Ltd.
Access or Visa Accepted.

# WORD PROCESSING DATABASE, MERGE

£16.59 inc. Recorded Delivery

Special LocoScript WP Base Pack £30 + VAT Each JASPELL Asian Script £30 + VAT

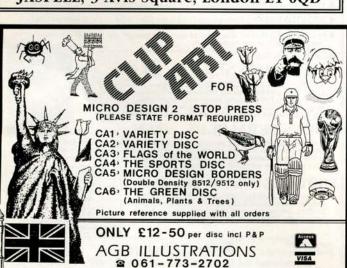
Amstrad PCW8256 with printer £299 + VAT वाश्ला SINI Bengali

िह न्दी Hindi Devanagari ગુજરાતી Gujarati ਗੁਰੂਮੁਖੀ Punjabi Gurumukhi

Key Seal with Asian keyboard layout £14 + VAT ■arge characters within text

Loco Arabic/Urdu £5 + VAT £85 + VAT

Eur Ing Jasper Burford 071-790 1775 JASPELL, 3 Avis Square, London E1 0QD



Queens Drive, Prestwich, Manchester, M25 8HQ.

AUTOMATIC LARGE LETTERING WITHIN LOCOSCRIPT 2 THE WORTHY SUCCESSOR TO LOCOLARGE

ALL OF THIS ADVERTISEMENT WAS MADE IN 1 PASS AND TOOK LESS THAN 7 MINUTES TO TYPE AND PRINT

Logos, Designs, Sideway Banners & Posters all now possible. Locomail + Locofile essential (available at extra cost).

3 Different styles & now 9 fonts including 2 reverse video suitable for ALL PCW's with Dot Matrix or External Printers.

Matrix version - £12 24 Pin + Bubble-Jet version - £18
The Complete Compendium - Matrix & 24 Pin + many extra fonts - £25
Available on 3" D.D. (706K) or NEW 3½" Disks - Please specify. S.D. (173K) disks supplied only on request at £2 extra.

Send Cash/Cheque with order or S.A.E. for full details to ADSTRAD LTD., 26 CAVENDISH HOUSE, TN37 6BJ Telephone: 0424 - 429492 (2pm - 8pm on MON - SAT)

#### learn FRENCH words

(conforms to National Curriculum proposals, Oct. 1990) GCSE-prescribed core vocabulary (also suitable for learners for Tourism & Business) set in editable 20,000-word database of contextual phrases illustrating grammar, syntax patterns and idiom. Dictionary search and revision tasks on six levels of difficulty. Multiple choice quiz, Anagram and Hangman puzzles and tests on single words and complete phrases. Progress records for forty named users protected by passwords.

"Innovative...provides considerable support for flexible, interactive learning." (Microelectronics Education Unit) For Amstrad PCWs and PC/Nimbus @ £18.75

Mike Greenwood, COLLEGE CONNECTION, Newtown, SY16 1BE State model/disk size

The definitive guide to desktop publishing with the PCW

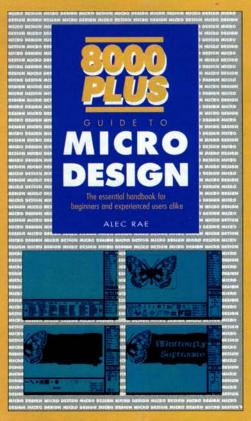
# THE 8000 PLUS GUIDE TO MICRODESIGN

This invaluable book together with supporting disc - yours for only £14.95!

'The 8000 Plus Guide to MicroDesign' takes the form of a beginner's guide to designing with MicroDesign 2 and provides the reader with a step-by-step tutorial – ensuring a gradual learning curve up to an advanced level. Chapters cover both business and 'home' applications with constant reference to screenshots to aid the reader. In addition, the book is fully supported by examples and demonstrations provided on the accompanying disc.

Important areas covered by the book include:

- introduction and how to use the program
- graphics and drawing features clip art, scanners, digitisers



- headline text choosing fonts, sizing and positioning on the page
- body text preparing and editing text
- newspaper format page layout and design.
- . . . illustrated with practical and relevant examples on how to:

create company logos and club badges; design headed paper, invoices and membership forms; prepare circulars and reports: design and lay out club newsletters.

If you are a MicroDesign user or intend to become one, then 'The 8000 Plus Guide to MicroDesign' will be invaluable and offers outstanding value at only £14.95 for both the book and disc.

To obtain your copy, complete the form and send it together with your cheque or credit card details in an envelope to the address below. Or, to beat the rush and guarantee your copy, call our credit card hotline on **0458 74011**. Your order will be actioned immediately but please allow 28 days for delivery. Thank you.

|                               |               | PRIO              | RITY ORD         | ER FORM             |                        |                           |
|-------------------------------|---------------|-------------------|------------------|---------------------|------------------------|---------------------------|
| ☐ Please send me 'The 800     | 00 Plus Guide | to MicroDesign' t | book and disc at | the all-inclusive p | orice of <b>£14.95</b> |                           |
| My method of payment is:      |               |                   |                  |                     |                        |                           |
| Cheque (please make che       | ques payable  | to Future Publish | ning Ltd.)       |                     |                        |                           |
| ☐ Access ☐ Visa               | Card No:      |                   | 0000             |                     |                        | Expiry date               |
| Name                          |               |                   |                  | 73                  |                        |                           |
| Address                       |               |                   |                  |                     |                        |                           |
|                               |               |                   |                  |                     |                        |                           |
|                               |               |                   |                  |                     |                        |                           |
|                               |               |                   |                  |                     |                        |                           |
| Post code                     |               |                   | Telep            | hone number         |                        |                           |
| Signature                     |               |                   | Date             |                     |                        |                           |
| Now simply tear-off this slip |               |                   |                  | olicable) in an er  |                        | Illowing FREEPOST address |



# **GOOD REPAIRS GUIDE**

Welcome to the Good Repairs Guide. In the event of your computer giving you trouble, you will know exactly where to turn to for help. We have tried to indicate the range of services offered by each company, together with a rough idea of how long they will take to carry out a repair; whether they will do on-site repairs (in which they send an engineer to your computer) bench repairs (where you send the computer to them) or both; whether they will charge for carriage if appropriate; what sort of warranty, cover or other such policy they can provide; whether they are prepared to quote over the phone, and so on. Of course, many of the details given depend on circumstances. Repair times are very

much dependent on the availability of spares and your location, courier charges are naturally affected by where the computer is being carried from and to, and most were loath to give exact repair quotes over the 'phone. Where appropriate, however, most were prepared to discuss the possible price without making a commitment.

## **A1 Computer Services**

9 Paddock Mount, Dawley, Telford, Shropshire TF4 3PR

### 0952 502737

- · All PCWs, PCW printers
- · Average time: 5 days
- · No on-site repairs
- · 3 month warranty on repairs
- Carriage charge repairs on distance

# **Dictaphone Co Ltd**

Regent Square The Parade Learnington Spa CV32 4NL

## 0926 429124

- · All PCWs, PCW printers
- · Average time: 2 days
- All repairs on-site countrywide service but one control centre.
- Contract maintenance: £39 to £54 for computers less than a year old, £53 to £73 for older computers (current prices) fixed, dependent on model but regardless of location.
- Prices and contracts discussed over the 'phone

# **GMC Computers**

The Green, Cavendish, Suffolk CO10 8BB 0787 280526

- · All PCWs, PCW printers
- · Average time: 7 to 10 days
- · On-site maintenance and service

contracts available; also warranty on repairs

- Carriage charged where applicable
- · Estimates given over 'phone

# **Microtyne**

No 1/3 Gallow Gate, Newcastle Upon Tyne NE1 4SG

# 091 261 4088

- All PCWs, PCW printers
- Average time: 3-4 days
- Carriage charged on long distances
- On-site service soon to be implemented
- · 3 month warranty on repairs
- Quotes not usually given over the 'phone

# **PC Microcentre**

9 Cherington Road Hanwell London

### 081 840 5343

- · All PCWs, PCW printers
- · Average time: 12 hours
- · On-site service
- · Warranty available
- · Will quote 'worst case scenario'
- final price often much lower
- · Fixed labour charge

# **Q6** Components

72 Croston Rd Garstang Preston PR31 1HR 0995 606060

- · All PCWs, PCW printers
- · No on-site repairs
- . Time taken: from 24 hrs
- · Carriage charge: £10 quoted
- · Will quote over 'phone
- · 3 month warranty on repairs

# **Somerset Micro Repairs**

Higher Pardlestone, Kilve, Bridgwater TA51 1SQ

# 0278 74528

- · All PCWs, PCW printers
- Quick 24hr turnaround, cheaper 3 day service.
- · No on-site repairs
- Carriage charge inclusive
- · Will discuss cost over 'phone
- · 3 month warranty on repairs

### Suredata

Unit 6, Stanley House, Stanley Ave., Wembley Middlesex HA0 4JB

### 081 902 5218

- · All PCWs, PCW printers
- 24-48 hour turnaround
- No on-site repairs courier charge for longer distances
- 3 month warranty available
- Will offer rough quote over 'phone

### AMAC Computer Systems

42 Knightcott Gardens Barwell, Weston Super Mare BS24 6HD

## 0934 820669

- · All PCWs, PCW printers
- · 2 days and over
- 2 aays and over
   No on-site repairs
- Warranty repairs 3 to 6 months
- Maximum possible price given as quote

## **Software Plus**

Unit 5, Green Park Station Bath

# 0225 448855

- · All PCWs, in-built printers
- · 2-3 day turnaround
- · No on-site repairs
- · courier charge
- quotes discussed over 'phone

# **Avcom Electronics**

Kingsbridge 0548 856279

- · All PCWs
- 7 day turnaround
- · On-site within Kingsbridge area
- No carriage charge for local repairs

# NKC Group (Repairs)

5 Rycaut Close Parkwood Estate Rainham Kent

# 0634 387185

- · All PCWs, PCW printers
- · 4 day turnaround
- · On-site repairs in locality
- Courier inclusive
- 3 month warranty
- Quotes over 'phone

# **8000 PLUS MAIL ORDER**

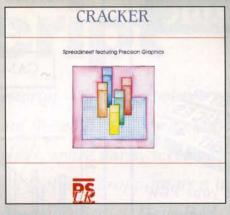


# **TEQNICHE KEYBOARD**

Excellent new 102 key keyboard for the PCW that really does make keying easier. 8000 PLUS were so impressed we got one ourselves! Not only does it feature a clear and clean design, but it feels

so much more comfortable. And the price is well worth it R.R.P. £90.85

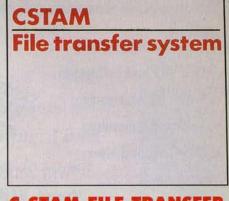
Our Price £79.00 Order no.8635



# CRACKER 2

Charts, graphs, calculations, evrything you could possibly want from the PCW's most powerful spreadsheet. We gave it our own Buyers' Guide rating so it can't be beaten for excellent value for money.

R.R.P. £49.95 Our Price £29.95 Order no. 8081



# C-STAM FILE TRANSFER SYSTEM

Transfer data between a PCW and PC or PPC and back again. This is ideal for those of you who have a PC at work and a PCW at home or vice-versa!

Comes with connecting cabel and 3", 3.5" and 5.25" discs

R.R.P. £46.95

Our price £34.95 Order no. 8637



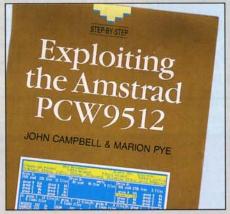
# MINI OFFICE PROFESSIONAL

This has to be the Integrated package for all your business needs. Comes with "The all in one Business Computing Book", this package contains word-processor, database, spreadsheet, graphics and comms.

We are giving away a free pack of highlighter pens with this offer Our price £26.95 Order no.8610

SAVE £13

SAVE



# EXPLOITING THE AMSTRAD PCW 9512

Written by John Campbell and Marion Pye, this book is aimed at the more experienced user of the 9512. 300 pages, packed with information on programs from Locoscript to Supercalc.2. Highly recommended by the 8000 PLUS team

R.R.P. £14.95

Our price £13.45 Order no.8637



# 8000 PLUS T-SHIRT

The 8000 Plus T-shirt in glorious American Royal Blue.Med T-shirt £4.95 Order no.8071
Large £4.95 Order no. 8072

# **8000 PLUS BINDER**

Gold-embossed binders. At last, you can tidy up that pile of 8000 Plus's you keep meaning to sort

Our price £4.95 Order no.8004 Two for £9.00 Order no. 8076

| Name  | Description  | Price           | Order no       |
|---|--|-----------------|----------------|
| Address   |  |                 |                |
| owner death traces as the second                        |  | LIPE CAT        | Contraction of |
| Postcode  | English  |                 |                |
| Telephone number  |  |                 |                |
| - Address and the Marian                                | Total  |                 |                |
| Method of payment (please circle) Access Visa Cheque PO | Places make chaques payable to Fut   | tura Publishina |                |
| Credit card no  | Please make cheques payable to Future Publishing.  No stamp required if posted in the UK Channel Islands or the Isle of ma |                 |                |
| Expiry date   | For overseas orders call Justin on 045   |                 |                |

# MAIL ORDER MEDIC

- ★ Countrywide service
- ★ Delivery and collection
- \* 3 months warranty
- ★ Service agreements
- ★ PX on second-user

equipment

"Will collect your PCW from your home or office, repair and service it (swiftly and diligently) and return it to you"

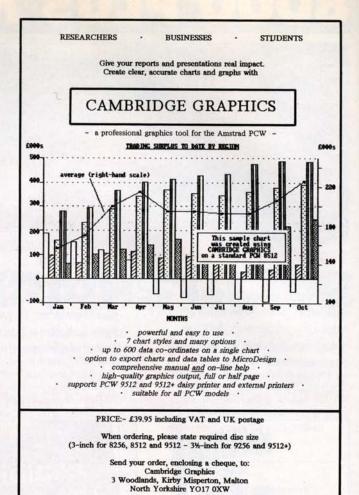
Contact - Malcolm Terry, Ian McKeen or Pauline Proctor at:

# COMPUTER SERVICES (KENT)

2 CHURCH ROAD BUSINESS CENTRE MURSTON, SITTINGBOURNE, KENT ME10 3RS

Tel: 0795 421731/2 Fax: 0795 475449

VISA



# THE ULTIMATE SPORTS STRATEGY GAMES PCW 8256/8512/9512

WORLD OF SOCCER

**HEAD COACH** 

or write for a full list of program features.

# **FEATURES**

- 19 TYPES OF PLAYER
- 33 EUROPEAN SQUADS
- INPUT PLAYERS OF YOUR OWN CHOICE
- CREATE YOUR OWN SQUADS

# **FEATURES**

- FULL 24 PAGE OFFENSIVE AND DEFENSIVE PLAY BOOK ENCLOSED
- NFL PLAYER DATABASE
- FULL 45 MAN SQUAD

| EUROPEAN CHAMPIONSHIP     WORLD CUP  |           | LEAGUE STATISTICS AND STANDINGS     COLLEGE DRAFT     SUPERBOWL |                                |  |
|--|-----------|---|--------------------------------|--|
| ALSO AVAILABLE: DESKTO   | P PUBLISH | HER: Probably the cheapest DTP a                                | vailable for the PCW           |  |
| PLEASE SUPPLY THE FOLLO  | OWING:    | NAME  |                                |  |
| TLEMOE SOTTET THE POLEC  | WING.     | ADDRESS   | UNIT 2, KINGSGATE              |  |
| WORLD OF SOCCER  | £19.95    |   | BUSINESS UNITS,<br>DUCHY ROAD, |  |
| HEAD COACH   | £19.95    |   | HEATHPARK,                     |  |
| DESKTOP PUBLISHER  | £24.95    | ACCESS/VISA NO  | HONITON, DEVON,<br>EX14 8YD    |  |
| PRICES QUOTED ARE FULLY IS   | NCLUSIVE  |   | TELEPHONE: (0404) 46660        |  |
| The state of the s |           | EXPIRY DATE   | FAX: (0404) 46661              |  |

# Postscript

Welcome to November's Postscript – the place where you tell us just what you think! Come in from the cold, pull up a chair and read all about price wars, writers' gripes, spare parts, screen clearing, 3 inch discs and more besides. If you feel like dropping us a line, do so, to: Postscript, 8000 Plus, 30 Monmouth Street, Bath BA1 2BW. Sorry, but we just cannot reply to your letters personally

# Write to reply

Having read Peter Lee's letter in the most recent issue of your magazine, requesting even more articles on how to be a writer, I was very amused to have a flier for Writers News fall from the magazine's pages. Were you trying to tell him something? I hope very much he will subscribe to that particular magazine rather than seeking to clutter up the pages of 8000 Plus with more articles on how to lay out a manuscript, approach a publisher, write a synopsis and so forth. This kind of material is quite simply out of place in a magazine which is supposed primarily to be about actually using the machine. It's not as though there aren't plenty of other magazines and outlets providing the information he seeks and aimed far more specifically at aspiring writers. To be honest, I feel that general articles about being a writer do more harm than good, encouraging people to believe that so long as they have a word processor, absolutely anyone can be a writer, as if talent, imagination and experience don't come into it. My heart sinks every time I read another of Nick Vandome's smug little articles on how he became a freelance writer. Frankly, the world is awash with putative freelance writers, convinced they will make a living by the pen. I rather hope you would do a little more to dissuade them, or else to demonstrate that a PCW is not a passport to instant success. What do I know about it, some will ask? I'm a part-time freelance reviewer, copy-writer and editor who makes most of her living by writing advertising blurbs and by reading other people's hopeful novels for a publisher. I'm well aware of the fact that I'm unlikely to make much of a living simply by penning witty articles and reviews which is why I'm training for a career with a little more bread and butter in it. Whilst I suppose I shouldn't be biting the eager amateur hands which indirectly feed me, I'm also well aware of the fact that it takes more than a fancy typeface and a neatly laid-out page to

make something worth publishing."
People should not be under the illusion that an Amstrad will solve all their problems and hypnotise publishers and editors into accepting their work. I was, incidentally, very sorry not to see an article from Dave Langford in issue 61. I feel his comments on being a writer provide a very welcome blast of cynicism and realism.

Maureen Speller Folkestone

8000 Plus: We include articles such as the ones you so disparagingly refer to, simply because we are aware that a great many of our readers are freelance writers. I am surprised that you imagine such readers – especially as you are one of them – could really be as naive as to imagine that we are misleading them in any way; you are (quite rightly) under no illusion as to the struggle involved in trying to get work published, so why do you think that other writers should be any less realistic?

As far as relevancy goes, I think you will find that in the majority of cases, there is always a specific portion of the piece given over to practical exercises, showing how to use the PCW to help the writer. Your comment, therefore, about the material being 'out of place in a magazine which is supposed to be about actually using the machine' is in fact, invalid. Even if you aren't a writer, there are still tips and advice within these pieces which could be of help to you in different contexts.

If our writing articles did not contain such information, well, I would be more sympathetic to your views. And, as such pieces are not included every month, I don't think we can be criticised for over doing it.

Indeed, this was part of the reasoning behind making Langford a bi-monthly column. It does seem rather odd that you condemn the inclusion of one kind of writing article, yet complain about the absence of another; surely double standards are at play here?

# In the club?

Recent issues of my favourite magazine has seen a welcome increase in articles relevant to my beloved 9512, from how to change your carbon ribbon (even if the innards of mine seem to bear no resemblance to that of your example – thank heavens for Aladdink's replacements) to the most interesting article on how to install a 3.5" drive.

Mind you I think there were a couple of steps missed out – such as replacing the wires removed to separate the two boards after locating the drive – but anyone, like me, seriously interested in getting this goodie for Xmas would have worked that out when their drive arrived.

However your last issue's "Good Repairs Guide" was frustrating – for this reader at least. My 9512 printer, not printing very well, benefited from your article on repairs and the little piece of plastic off a ribbon is now strategically placed giving a better, but not perfect print quality. However I can't help feeling that it is the spring that is at fault and your Guide located a repairer no nearer than Newcastle.

Now I know your rival 'zine mentioned one in Dundee a month or so ago but even that is 90 miles away – Newcastle is over 200 miles away. Surely there is a good, cheap repairer of PCWs nearer me than that? So, do you know of any?

Kenneth Clark Aberdeen

8000 Plus: Honestly, we don't keep the names of Aberdonian PCW repairers a secret out of churlishness! If we don't mention one nearer it is simply because we don't know of one.

The Repairs guide, like the Club and Training Guide, relies to a certain extent on information sent in from readers – so, if anyone does know of a repairs centre near Aberdeen, please let us know!

We'll be only too pleased to add it to the list at the next opportunity.





# Grammar drama

Do you know of any software company in the UK who are developing a grammar checker for the PCW8512? I'd really like to know, as both Locomotive and Arnor make it perfectly clear that they have no plans for one – despite my attempts to convince them that such a piece of software would have great appeal to us hackers! I'm writing this while on vacation in the UK, and was pleased to find the Smiths bookstore in Crawley carry your excellent magazine. T Benn California

8000 Plus: As far as we know, there is no-one out there producing a grammar checker for any of the machines in the PCW range – more's the pity! We understand that this kind of utility is far more widespread among PC word processors. It would be splendid, indeed, to have such a tool. Come on, industry

# Disc dilemma

bigwigs, let's have one soon!

What has happened to your disc labels? You did offer these a while ago, and I was wondering if you had plans to do so again. I cannot find any other supplier in your magazine. It would also be useful if labels for the 3.5 disc were on offer. According to you, this will be the disc of the next decade, and I have already installed the internal unit from Silicon City.

Trefor Rees Pontyclun

8000 Plus: Well, as far as the first point goes, you can still get hold of a five-pack of 8000 Plus disc labels by sending a cheque or postal order for £1.00, made payable to Future Publishing, to 8000 Plus Disc Labels, The Old Barn, Brunel Precinct, Somerton, Somerset TA11 7PY. And yes, we do have plans to produce labels for the 3.5 inch disc – in the new year. Keep your eyes peeled, Mr Rees!

# PIPped at the post?

In Postscript in the September issue, you tell Dr Eban to copy DIR.COM from side 3 of the CP/M disc into the memory using PIP., but my disc 3 doesn't have that file on it – it is a new disc, because my PCW8512 is new.

Where can I find it?
David Malyon
Herne Bay,
Kent

8000 Plus: OK, David, if you have a PCW8000 series machine, you will find the utility PIP. on the reverse side of the supplied LocoScript disc, rather than on side 3 of the CP/M (or second) disc. You will then be able to follow the instructions as shown.

# **Bailing out**

I write to you in some distress. After three and a half years my PCW8512 built-in printer has a decidedly limp bail bar. The small spring that controls the bail bar return is broken and spares seem not to be available in the colonies. There have been unsuccessful attempts to locate such a spare in both Auckland and Christchurch. I write this on a borrowed Super 5 EP-2000. Not without some difficulties! Can you help me please?

Les Gilchrist Hamilton, New Zealand

8000 Plus: But of course – contact CPC Spares at PO Box 158, Preston, Lancs, telephone (0772) 555034. I believe that they will be able to supply the part you require for under £7.00. Can't be bad!

# **Even reasons?**

I ventured into the world of wordprocessing 15 months ago with a PCW

9512, discovered 8000 Plus a year later and am quite impressed by both. With interest rapidly increasing in Locoscript, and thoughts of writing my own simple programs in Basic, I am now contemplating fitting an internal B drive. This would be a 3.5" drive from Silicon City, as detailed in the June issue of 8000 Plus, for the following reasons:-a) There are many advantages of having two drives and it would make more sense to fit this rather than another 3" drive at this time.

b) Using DISCKIT, I could copy my existing 3" file discs from the A drive, on to 3.5" discs on B drive. This would include LocoScript and CP/M start-up discs as a future back-up.

c) In the event of my A drive requiring replacement at a later date, this could then be replaced by a similar A 3.5" internal drive. It would then leave me with a complete 3.5" system, including start-up discs.

Apart from the slight inconvenience of having two disc sizes at present, does this logic make sense to you, or am I missing an obvious drawback?

Roy Graham Halesowen

8000 Plus: No, Roy, you seem to have come up with most of the good reasons for making such an upgrade. Another good one is that 3.5 inch discs are a good deal cheaper, and given that the new PcWs are in this format, software will soon be widely available on the larger disc size. And, of course, you are instantly in a better position to transfer from CP/M to MS-DOS (with the appropriate software). Go for it!

# Label stable

I am a senior citizen, interested in photography and I wanted to know more about MicroDesign, to put titles on my films through my daughter's PCW 8256 LocoScript 1. The disc I have received with the 8000 Plus Guide to MicroDesign is no use to me unless I purchase the Master disc (according to your reply to Mr Ned Potter). However, please let me know if it is possible to use the MD2 Master Disc direct on my computer, or would I have to purchase further software?

F Barber Mossley, Lancashire

8000 Plus: No. Once you buy MicroDesign, all you have to do is to make a working copy of the master, and then you are ready to go. You will then be able to make use of the book and the disc which you have bought from us.

# My whirred!

When I have loaded up a program or finished saving a file in my 8256 (with a 756k RamPac) I have noticed that the whirring sound from the disc drive continues after the light goes out. When copying discs (in CP/M or from LocoScript 2) the prompt to 'Insert disc to read/write' appears before the whirring stops. Should I wait for the sound to stop before ejecting the disc? Many thanks for a really informative magazine.

Peter Betts Exeter

8000 Plus: Yes, Peter, it's always best to wait; there is nothing more frustrating than corrupting a disc, and this is one tried and tested way of doing it!

# Bluffer's guide

When teaching someone how to bluff it is vital that what is taught is correct. The acronym "ASCII" stands for American Standard Code for Information Interchange. The text on page 23 of the October issue twice left out the word "Standard". Incidentally, the BASIC instruction ASC is so called because it gives the ASCII value of the character supplied.

Alan Baker Bournemouth 8000 Plus: Well thank you!

# Are we compatible?

With the increasing number of hardware add-ons, not to mention software, the spectre of incompatibility begins to cast its shadow over the PCW scene. I came upon this first with the Isenstein Ramcard, when I wished to invest in Sprinter. Having opted for the latter, it then appeared that the popular SCA Ram Pacs were also incompatible, as you indicated in your article on installing Sprinter. I am now looking at interfaces

# FAST COMPUTER REPAIRS

From London's leading Amstrad Authorized service centre. 48 hour workshop repairs 8 hour on site call out service. Low fixed charges with 3 month guarantee on all repairs.

## Other services available:

- Hardware/software sales (new & reconditioned) (we also buy & offer P.X. on second hand equipment)
- Professional training in all popular applications
- Service agreements
- Business consultancy service
- Software development
- Amstrad consumable sales (manuals disk etc)

WE NOW REPAIR AMSTRAD FAX MACHINES

You've TRIED THE REST NOW CALL THE BEST PC MICROCENTRE LTD 081-840 5343/081-579 1667

9 Cherington Road, Hanwell, London W7 3HL

# budget accounts

If you need to take control of your finances and maintain a permanent record of all your transactions - making by way of example, say six entries daily for up to five and a half years on an 8/9512 - but you don't need the multiplicity of functions offered by spreadsheets and business accounts packages then perhaps you should consider investing £19.95 in Budget Accounts - the best value and easiest to use small accounts package currently available for all PCW's.

If you think Budget Accounts could be just what you are looking for, then you are welcome to write or telephone for more information in the form of a free leaflet .

Budget Accounts costs £19.95 inclusive. (please state model when ordering)

EALING LONDON W5 4JT TELEPHONE 081 840 0760

codex software

# Philosoft GRAF THE MISSING

# **SPRINTER COMPATIBLE**

# software for MASTERSCAN

- Scans a whole A4 page at high resolution
- Outputs MicroDesign Area files
   Logo compatible
- Text-scanning option
   Adjustable speed/quality

To Order: £24.90 to PHILOSOFT 35 New Shawbost, Lewis, PA86 9BG Tel: 0851 71411

# HIT THE BUTTON AND GO!

IT'S TIME TO HAVE SOME FUN ON YOUR AMSTRAD CPC CPC CHALLENGE has 7 top quality games in the best value compilation going!

ACTIVATOR Combat strange and dangerous life forms unlock the hidden mysteries, as you struggle to bring power back to a long HERO can you survive the dangers of terrifying settings abandoned space port. Superb graphics and arcade action full of suprises.

World of the gangster and the gun in this ultimate

action full of suprises.

PENALTY SOCCER As goalie it is all down to you. The top strikers in the world are going to take their best shots at you. Can you make the savel shots at you. Can you make the savel shots at you. Can you make the savel shots at you. When the savel shots at you way through a multi screen complex to save suprises and suprised sand a ruthless enemy.

SOLAR WARRIOR Fly and fight in deep space combat and if you survive that use your drop ship to adventure set in the catacombs of the evil Gar. To succeed you must explore, map and use your mind to against allen hordes.

# CPC CHALLENGE IS AVAILABLE ON CASSETTE OR DISK FOR ONLY £12

CPC COMPENDIUM - THE INCREDIBLE VALUE 50 GAME COMPILATION OF GAMES FOR YOUR CPC FEATURES 50 classic board, card, arcade, sambling, adventure, strategy and shoot-em-ups for your CPC including BACKGAMMON, CRAPS, YAMZEE, COLONY, NEMESIS, CYCLONS, PONTOON, 3DMAZE, GOLF, STARTRAK, FIGHTER COMMAND, 3CARD BRAG, JET FLIGHT, TRUCKING, GHOSTS and many more...

# CPC COMPENDIUM IS AVAILABLE ON CASSETTE OR DISK FOR ONLY £8

ORDER CPC CHALLENGE NOW FOR ONLY £12 INCLUDING P&P OR TAKE ADVANTAGE OF OUR SPECIAL OFFER - ORDER BOTH CPC CHALLENGE AND CPC COMPENDIUM TOGETHER FOR ONLY £16 - How's that for unbeatable value!

SEND CHEQUE OF POSTAL ORDERS TO: DTS SOFTWARE, DEPT AMSA, 51 WESTEND AVENUE, HARROGATE, N. YORKS HG2 9BX. PLEASE STATE CASSETTE OR DISK WHEN ORDERING.

# **8 CHESTNUT GROVE**

# Locoscript Utilities

Software so good the firm that wrote it still uses it.

ADDRESSES ADDRESS LIST/LABEL PRINTER with Auto label numbering.

Prints 1/2/3/ across labels. Template Letter AUTOMATICALLY selects the correct opening & complementary close for trouble free Mail Merging. Selector facility allows creation of Sub-Lists and conditional merge operations. Requires LocoScript & LocoMail

INVOICES INVOICING/SALES LEDGER from within Locoscript. Create/
amend invoices/sales ledger records while EDITing documents and
without having to re-boot or Flip. Invoices, Sales Reports, Customer Statements, Reminder
Letters. Data files can be converted to ASCII for your CP/M accounts program. State whether VAT or NET Requires LocoScript/LocoMail/Locofile

COMBO Both of the above SAVE £10.00

£39.98

FULL MANUAL SUPPLIED WITH ALL PACKAGES PRICES ARE INCLUSIVE NO EXTRAS TO PAY



# Chris Pinnock

PROCESSING BUREAU 10 BAY GARDENS EASTVILLE BRISTOL BS5 6YB Tel (0272) 514203

# RIBBONS RE-INKED: £1.30 each

Any black fabric PCW ribbon Introductory offer until end of 1991 Also other makes & colours - telephone or s.a.e. for price

# **PCW MULTISTRIKE FILM**

| Product                                | PCW9512 | 8256/8512 |
|--|---------|-----------|
| New cassettes:                         | £2.50   | £3.00     |
| Refurbish old cassette:                | £2.00   | £2.00     |
| D.I.Y. Starter Pack:                   | £10.00  | £10.00    |
| Starter packs equivalent to cassettes: | SIX     | FIVE      |
| D-I-Y Refill spool/roll:               | £1.50   | £1.50     |
| D-I-Y Jumbo Roll (500m x 1/2"):        | N/A     | £24.00    |

Please add 99p per order for multistrike products

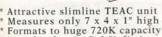
Prices all inclusive - nothing more to pay! Please enclose crossed cheque or postal order made payable to ALADDINK.
Public institutions please telephone to arrange credit facilities

ALADDINK, DEPT 80, EYEMOUTH, BERWICKSHIRE, TD14 5AP. Tel: 08907 50965

# SD MICROSYSTEMS

VISA

3 1/2" DRIVE Only £75!



- Simple plug-in D.I.Y. fitting. Ideal 2nd drive for 8256/9512 Quiet and economical in use.
- FREE Starter Pack of 5 disks!
  Fully guaranteed for One Year
  Next-Day courier delivery £7
  Allow 7 days on cheque orders
  SRD DRIVE PACKAGE......£95.00
  As above plus Drive Splitter.
  Enables use as an alternative B drive on the 8512 or 9512.

# SMALL TRADER PCW.....£35.00

Integrated stock, invoicing and accounts pack. Simplest to use. See review in APCW, July 1991!

GENERAL LEDGER (Business) .£29.95 The book-keeping program: Bank, Cash, VAT, Profit & Loss etc. Operates alone or combines with Small Trader (£50.00 for both).

GENERAL LEDGER (Personal) .£19.95 Handles home accounts including bank, credit cards and savings.

PCW PAYROLL PROGRAM ...£52.50 PAYE/NIC/Hourly/Weekly/Monthly. Up to 50 staff. Prints payslips and reports. Very easy to use.

Special prices on PCW supplies.

Send Cheques, POs or SAE for our full catalogue to (DEPT 8000) SD MICROSYSTEMS, P.O. BOX 24, HOLBEACH, LINCS. Tel: (0406) 32252

## DESIGNER - for knitting, embroidery

- \* For designers of knitwear, embroidery, rugs, mosaics any craft that normally would use squared paper. 

  \* Up to 8 colours/stitches/textures etc.

  \* Graphical and Listing printouts.

  \* Editing facilities include Copy, Fill, Move.

  \* Save and Load \*motifs\* build you own library.

  \* Price £19.95
- - PCW CARD

# \* For designers of machine knitwear. \* Has all the editing facilities of DESIGNER. \* Produces templates for punched cards and Mylar \* Allows multi-colour and multi-card printouts. Price £19.95

Film.

★ Caters for most makes of knitting machine SPECIAL OFFER: DESIGNER and PCWCARD together....£29.95

PCW DRAW

- \* A full function drafting program.

  \* Draws lines, circles, ellipses, arcs and rectangles.

  \* Twenty FILL patterns.

  \* Portrait and landscape printouts.

  \* Can be used with 24 pin printer for extra clarity.

  \* Adds different sized TEXT, vertically and horizontally.

  \* Portrait and landscape printouts.

  \* Supports KEMPSTON, AMX and CONTRIVER mouse.

  \* Price £39. Price £39.95

\* A suite of five mind tormenting puzzles.

\* A suite of five mind tormenting puzzles.

\* Random starts mean puzzles rarely repeat.

\* Set level from trivial to brain-storming.

\* Set level from trivial to brain-storming.

Prices include VAT, P&P Cash with order

Prices include VAT, P&P Cash with order

HTB COMPUTERS LTD, Broadwater House, Broadwater Road,

Romsey, Hants. SO51 8GT Tel: 0794 - 516279 SPECIAL OFFER: PCWDRAW with CONTRIVER mouse and interface...

- ★ Challenge your friends a league table can be set up. Price £11.50



with a view to getting a high quality printer, but then it was suggested that the SCA Professional Plus (with clock) might also cause problems with Sprinter. However, SCA have been most helpful as indeed have Cirtech - in looking at the problem, and it begins to look as if this will be OK after all. Now for a hard disc. I feel it would be most helpful if you could publish any information which has come to your notice regarding the compatibility, or lack of it, between these and other popular hardware bits and pieces, as well as with various software packages. CP/M and LocoScript do it of course - but what if you have them on the same disc? Flipper 3 should get around that, but what about the new GEM hard disc from Cirtech? More incompatibilities?

Michael Harris Bognor Regis

8000 Plus: Compatibility is one of the first problems that people seem to encounter with new products (after the usual teething troubles with setting up). I am ever grateful to the companies you mention for being prepared to tell you whether their product is compatible with x, y or z - we can't always be expected to provide the answer! I do think it would be a good idea for manufacturers to include details on compatibility somewhere in the documentation - it would save so much time and trouble! However, I can tell you on this occasion that Gem is NOT compatible with Flipper; as far LocoScript and CP/M go, they can happily co-exist, but you need to choose one or the other as the default program. If you wish to change the default, simply hold down the [ALT] key while booting up. Anyway, if you want to find out more about Gem, turn to page 50 for a full review!

# Chart success

Some many moons ago, when LocoScript 2 was an innovative piece of software, 8000 PLUS had the brilliant idea of producing a chart to be

'The Guide at Your Side', which was (and is) most useful. I suggest that a similar chart for Micro Design 2 would be similarly helpful and would certainly be most welcome.

A G Mather Guernsey

8000 Plus: We agree – and have already done something about it! All you have to do is to wait until we tell you what that something is. Thanks for your letter, AG.

# **Cost of loving**

I purchased my last 8000 Plus this evening, I nearly chocked at W H Smith's when the assistant had to coax a further 25p from me on top of the two pound coins I offered and expected change from. Two pounds twenty-five

pence is just too much, you have just met customer price-resistance. You produce a wonderful magazine; varied, up-to-date and immensely informative, it's good, even great; but not that great. Should this hike in the cover price presage the introduction of a cover disc, with the usual mix of games, utilities and demos, we, the buying public, could just about stomach it, but not without. Don't worry, I shan't be switching my allegiance to the official PCW magazine, I'm annoyed not desperate!

Andrew Dawn Derby

Simon Stansfield, Publisher of 8000 Plus, replies: Unfortunately, our costs continue to rise. The price of print does not remain static, nor is it easy to produce quality colour pages at any lesser cost. I personally believe - and I feel confident that readers will agree with me - that 8000 Plus still offers tremendous value for money, especially when compared to other media. Its shelf life is permanent; many of our readers write in to tell us that they are still gleaning hints, tips and advice from issue one of the magazine five years ago. We consistently try to deliver the best product at the most realistic price, covermounting the issue with a 3 inch disc would merely send costs soaring.

# Four thought

I want to enquire about the significance of those cryptic 4-character codes at the right-hand margin of your ever-so-clear LISTINGS. I imagine that they are some sort of accuracy check, but how do they work? If you have published anything on this during this current year, it will suffice if you can provide the reference. Otherwise, I should be grateful to be informed more fully. Your magazine continues to be excellent and useful. Peter Hansell FRCP FRPS Bath

8000 Plus: The numbers on the right are called Checksum numbers; you don't need to type them in when you type in the listing, but they form the Check3.BAS listing published in our July issue. I refer you back to that very issue for more details (page 65) and also to the 'How to type in a listing' box which appears in Listings every month.

# Clear off!

There is one thing I would like to have an answer to. When I 'try' to do a bit of programming in CP/M/Basic, I usually end up making a hash of the whole thing (with a screen full, of course) and it would be easier to start again or clear the screen. I suppose it's there somewhere in the manual. I have tried CS and a few other things that came to my head – no go. Save my sanity the next time I

venture into 'CP/M land' please! G A Landragin Chalfont St Giles

BASIC, type the following PRINT CHR\$(27)+"E"+CHR\$(27)+"H" If in CP/M, follow this keypress sequence: [EXIT]E[EXIT]H[RETURN]. Both courses of action will deliver you safely to a prompt at the top left hand corner of the screen. Long live your sanity, GA!

8000 Plus: OK, here we go. If you are in

# **Going spare**

Recently the daisywheel printer of my faithful 9512 started producing poor quality print, missing and half formed letters, faint print and so on. So, a quick search through my back copies to find the article on 9512 printer faults, which appeared in issue 55 of April this year. Following your easy guide I quickly established that the fault was indeed a cracked armature. A phone call to CPC Spares, on the number given in your article, found that they had the part in stock at a price of £6.55 inc. VAT and postage. I immediately sent off a cheque and within 2 days the replacement armature had arrived. Pleasant to deal with a company who do not wait 7 days or more for a cheque to clear. Again following your article the part was replaced quickly and without fuss (except for that damned E-Ring clip!). Result, crisp clear type again, hopefully for the 4 years the old one lasted. So, thank you to CPC Spares for their quick and efficient service. And to yourselves for producing both an informative and practical magazine. Please keep up the articles on DIY repairs and add-ons as these are certainly both a time, and more importantly, huge money saver. I've no doubt that had I taken my printer to a dealer or repair centre, I would have had to multiply the £6.55 I spent by 10.

Dave Jones Derbyshire

8000 Plus: Thanks, Dave; these features do seem to have become very popular with our readers, and it makes it all the more worthwhile to run them when we know we have the support of decent suppliers such as CPC.

# Feeling the inch

Is there going to be a shortage of 3" discs? What are we going to do?

Helen Cox Middlesex

8000 Plus: It does seem as though the 3 inch disc is on its way out – slowly. I'm not suggesting that all 27,000 of you go out and buy all the stocks available, because a true scarcity will not happen for many months – dare I even say a year? Mind you, it could give people a first class idea for Christmas presents!

# THE 3" DRIVE IS DEAD!! LONG LIVE THE 32" FORMAT

Amstrads new "PCW9512+" is fitted with the industry standard 31" Drive. Don't fall behind. Upgrade now!!

A NEW 31" fitted in place of your tired old 3 incher. For ONLY £89.00 (inc. VAT).

Fit a 31" drive as an additional Drive "B". For £115.00 (inc. VAT).

Enjoy the benefits of cheaper disk costs and higher reliability, fully guaranteed upgrade, quality Japanese drives.

Phone now for details. P.C. Microcentre Ltd, 9. Cherington Rd, Hanwell, London W7 3HL



SENSIBLE PROGRAMS AT SENSIBLE PRICES

Every program written by a mathematician who has spent many years in the betting industry. He KNOWS how the professionals operate. He KNOWS how to help you win.

**FOOTBALL BOXFORM** Written by a former pools expert for Littlewoods. The program has forecast over 50% more draws than would be expected by chance. Homes, aways and draws shown in order of merit and true odds given for every match. Merit tables show at a glance the teams currently in form and those having a lean spell. Australian Pools program included in the price.

SUPER PLANNER by the same author. full details given of OVER 400 ENTRIES covering up to 57 selections. Includes SINGLE AND MULTIPLE entries of LIT PLANS 1, 2, 9, 25, 27, 28, 29, 47, 48, 49, 50, 79, 80, 81, 82, 83, 84, 96,100, 200, B37, B38, B39, B49, B50, B54, B58, B59, B145, B180, V-Plans 20, 42, 43, 44, 83, 84, 85, 87, TIP TOP 10 & 15, EXPRESS 35 & 38, MAIL 60, 75, E, P, MIRROR 1 & 8, FULL PERMS 8 from 9 to 8 from 14. All FULLY CHECKED in seconds by your computer. Not just the highest scoring but ALL POSSIBLE WINNING LINES.

POOLS PLANNER Similar to above but covering block permutations using Littlewoods standard quarantee blocks.

RACING BOXFORM Course characteristics (built into the program) as well as the form of the horses are considered in speedily producing an order of merit for each race. Designed for flexibility allowing users to amend the program if they wish. Price still includes the highly acclaimed HANDICAP WINNER - more than 1000 winners every year - over 25% of them at 5/1

PUNTERS PARTNER Works out almost any bet...doubles, trebles and accumulators including mixed stakes, yankee, Canadian, Heinz, Goliath, patent, union jack, up & down (if cash bets) single & double stakes, round robins, rounders, roundabouts, round the clock, Win or each way. Covers non runners, rule 4, dead heats. Versatile multiple odds calculator for fixed odds bets and the lines required for any full learn source. Covers non runners, rule 4, dead heats. Versatile multiple and the lines required for any full perm you're likely to meet.

PRICES. (Tape) £16.95 each. £25.95 any two. £34.95 any three. For disks please add £2

SPECIAL OFFERS FOOTBALL BOXFORM, RACING BOXFORM & PUNTERS
PARTNER. 527.95 TAPE, 631.95 DISK

FOOTBALL TOOL KIT Football Boxform, Super Planner, Pools Planner, Punters Partner ... £30 TAPE, £35 DISK

RACING TOOL KIT Racing Boxform, Punters Partner plus 4 further programs which enable you to keep your own records or produce and amend form and time ratings...£33 TAPE, £38 DISK.

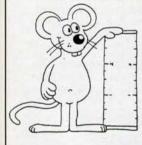
BOTH THE ABOVE KITS...£55 TAPE, £62 DISK.



Advertised for six years in the sporting and computer press
BOXoft CLEVER..GET THE BEST

Please make cheques or Postal orders payable to BOXOFT (8K), 65 Allans Meadow, Neston, South Wirral L64 9SQ Tel: 051-336 2668

CPC CMD 64/128 PCW SPECTRUMS



# A THESAURUS FOR THE PCW9256 AND PCW9512+

Our famous 3 Inch Thesaurus is now available on 3.5" disk for the new PCW machines (or for the old PCW machines with 3.5" B drive) for just £14.95

You will need LocoFile (and Locoscript 2) to use the Thesaurus, we can supply these for the new machines at discount prices, telephone or write for details.

We also have a Rhyming Dictionary on 3" or 3.5" disk for £19.95.

Disk transfer service between 3" and 3.5" disks available for just £5 per destination disk. Please state precisely which machine and drive combination you have when ordering from:



Three Inch Software, 194 Amyand Park Road, Twickenham, TW1 3HY. Telephone 081-892 4363

Access, Mastercard and Visa orders welcomed



# UPGRADING TO PC? LOOKING FOR A PACKAGE DEAL?

LOCOSCRIPT PC & LINK £128.00 incl. post. LOCOSCRIPT PC £119.50 LOCOLINK 2 £32.00 HYWIN 386sx16MHz,2MbRAM,40MbDrive,Mono 3.5" 1.4Mb floppy drive, 2 Serial I Par. Port. only £1050.00 and 15% off all printers.

MANNESMANN TALLY PRINTERS AT EXCELLENT EX-CARR. PRICES MT81 9 PIN £140. MT82 24 PIN £305. MT131/9 WIDE CARR. £450 MT91 INKJET 48n £700. MT904 4ppm LASER £760 MT911 PS £2000. 10% OFF ALL OTHER PRINTERS \* ALL CONSUMABLES IN STOCK

LOCOMOTIVE AND MANNESMANN AUTHORISED DEALER Send, Telephone or Fax your Order to: Prices include VAT. Carr. £10.00

The AVENUE Group 0705
8 FOURTH AVE HAVANT POS 20X

# I think, therefore I need...BrainStorm

BrainStorm helps you keep on top of everything - from writing a speech to managing your life.

You can't do anything without information. Nor can you do anything if it's an unstructured mess! Normally, you scribble on bits of paper, tap into word processors and mark up books and other documents. Arranging this jumble into the right order is the key to successful planning of any project. And this is where BrainStorm comes into its own.

With BrainStorm you can capture information as it arrives, tack on your own thoughts and rearrange it all to your heart's content. BrainStorm makes planning simple, fast, effective and, yes, even fun.

"I only regret that I did not purchase it sooner"

Mrs JMF of Selsey.



(Our full address is 18 Courtlands Close, Ruislip, Middlesex, HA4 8AX).



# Competition

At a time when the entire PCW market seems to be in a state of suspended animation, awaiting details of the new PcWs, at least one company has had enough confidence in the existing machine to come out with a major new product.

Cirtech, the Scottish based company, famed for such innovative products as Sprinter and the Diamond hard disc, have just completed work on Gem – the first PCW hard disc to retail at under £200.

This could well be the vital breakthrough needed to introduce PCW owners to hard discs on a large scale. Probably the main reason why most PCW owners have not invested in a hard discs before is because they can't afford them.

The convenience of having a hard disc is such that once you have used it for a week you won't be able to live without it.

But to the PCW owner, up till now, to buy a hard disc would involve spending more than the cost price of the PCW itself – a difficult purchasing decision to justify for many.

To date, the cheapest hard disc available for the PCW was SCA's Vortex. When it was released at the beginning of the year, the price tag of £350 was regarded as a modest one. But, just as computers continually get

smaller and smaller, the price of this kind of hardware can travel in the opposite direction to the rest of inflation and come down. The appearance of Cirtech's Gem on the market, at that price, is likely to cause a major shakeup of the entire market.

So, why invest in a hard disc? Well, like most significant PCW add-ons, the benefits are easier to assess once you actually own one.

If you have ever lost a vital disc, if you are frustrated by the time that it takes to access your files or if you are weary of endless disc swapping, then the addition of a hard disc to your PCW is a perfect solution.

What Gem gives you is the ability to really organise your entire working practices. With Gem, everything you need is stored neatly at your fingertips. All your programs can be kept on the disc along with every text, graphics, database or spreadsheet file you have ever created. You can use both LocoScript 2 and CP/M programs with ease.

And a hard disc will actually speed up the operation of many of your programs. Loading and savings files is substantially quicker from a hard disc.

Gem differs from some hard discs for the PCW in that it does

not require formatting. This means that the already trouble-free installation program becomes still simpler. Gem comes with its own expansion box which can be attached to the PCW's expansion slot at the back of the machine.

Because it has a through connector, Gem can be used in conjunction with add-ons such as a Rampac or a handscanner.

To use Gem, all you have to do is to plug the ribbon cable into the appropriate slot on the back of the PCW. The first time you use the Gem hard disc, you have to go through a simple, once-only set-up program. After that all you need to do is switch on and you are ready to go.

A hard disc is most useful when it is efficiently organised by the user and Gem provides some useful utilities to help you do this properly.

And, the best news of all is that we have one Cirtech Gem up for grabs in this month's Back Page competition!

All you have to do is to supply the answer to a none-too-taxing question and send it, on a postcard, to Gem Competition, 8000 Plus, 29 Monmouth Street, Bath BA1 2BW. So, what is the name of the clip-on hard disc which is also made by Cirtech? Easy! Good luck one and all...

# Next month!

Christmas comes but once a year – and next month, it's that time again! In true 8000 Plus style, we'll be taking a nostalgic look back over 1991. We reckon that the past twelve months have been some of the most influential ever to be seen by the PCW industry – and we'll be telling you why. Plus, we take a sneak preview into the coming year. What will it hold for the PCW? Join us in December for the full story!

# **Write to Unite!**

If you are doing any form of freelance writing, you'll be pleased to hear that there is a solution to your often lonely existence in front of the PCW! You will be relieved to know that there are several organisations set up specifically to unite the nation's scribes, which provide valuable sources of help and advice for a range of topics. Not only can you get to know other writers, but you can also find out useful information about rates of pay, copyright laws, and all manner of related topics. Don't miss Andrew Bibby's essential round-up of contacts!

# **The Good Book**

Next month, we'll be taking a look at a brand new program from the Bible Society. Called Bibliotec Wordkey, it provides you with the first ever computerised index of the Good News Bible. Bibliotec Wordkey includes a staggering 212,800 Bible references, and takes the strain out of wading through a hefty concordance. So, if you'd like to speed up your Bible Study, order your copy of December's 8000 Plus now!

# Chips are Up

With all the fuss over the new PcWs, some of you may be feeling a little left out. Next month, we have a special step by step guide for PCW8256 owners. We'll be showing you how to add extra memory chips to your 8256, in order to make it as big and beefy as its elder cousins. It's simpler than it sounds, and it will give you that all-important extra space for those larger PCW programs. See you next month!

The December issue of



is on sale from
25TH NOVEMBER
Order your copy now – using the
coupon on page 46!

# POWER POR

Designed and manufactured in the UK, SCA products are backed up with a first-class telephone support service and a money-back guarantee





# **SCA Rampacs**

- Compatible with all Amstrad PCWs.
  - Simply plug into the expansion port.
    - Tested Locoscript compatible by Locomotive Software.
      - Through-connector allows continued use of other peripherals.
        - Three versions available-512K, 768K and 1.5Mb.
        - Upgrades available to existing Rampacs.

To upgrade your existing SCA Rampac simply send your Rampac to us and we will upgrade and return it within 48 hours 512K to 768K, £30.39 + VAT = £35.71 post free 512K to 1.5Mb, £100 + VAT = £117.50 post free 768K to 1.5Mb, £75 + VAT = £88.13 post free

### 512K

- Adds 512K of RAM. Instantly!
- Only £89.00 + VAT. Total £104.58 - postage free.

### 768K

- Will upgrade your PCW 8256 to a full 1Mb.
- Only £109 + VAT.
   Total £128.08 postage free.

### 1.5Mb

- Three times the memory of basic Rampac for only twice the pricel
- Allows Locoscript users to use the maximum 2Mb memory on 8512/9512 machines.
- Flipper 2 recommended for CP/M users.
- Only £189 + VAT. Total £222.08 - postage free.

If you use Locoscript you should have a Rampac- but don't just take our word for it, see what the magazines say-

The Rampac will enhance any PCW and I have no hesitation in endorsing its usefulness.

Amstrad PCW July 1990

You can be sure that the Rampac will work with programs.

It's very good value and provides

the easiest way of upgrading your memory. 8000 Plus February 1990

# SCA Interfaces (serial/parallel) For Amstrad PCWs

# PROFESSIONAL

- Full 8 bit Centronics parallel port for printers and plotters.
- Full duplex RS232 serial port for communications at all speeds between 75 & 19200 Baud.
- User manual supplied with details of cables.
- Only £48.00 + VAT.
   Total £56.40 postage free.

# PROFESSIONAL PLUS

- All functions as Professional
- Real Time Clock/Calender with on-screen digital clock display
- Demonstration and communications software supplied on a 3" diskette
- Automatic CP/M time and date stamping.
- Only £57.00 + VAT.
   Total £66.98 postage free.

PROFESSIONAL

SCA Systems Ltd., 61 Ferringham Lane, Ferring, Worthing, West Sussex BN12 5LW Telephone 0903 700288 Fax 0903 506606





# Cracker 2 plus

Now with larger worksheet - up to 3 times the original supported!



Cracker 2 turbo plus is the powerful, user friendly graphics spreadsheet specially written for the PCW 8256, 8512 and 9512. Fast and easy to use, with a wide variety of graph styles, why settle for a text-only spreadsheet when the best costs less?

Cracker 2 turbo plus is capable of checking entries for error as data is keyed into a work sheet. Arithmetic, logic and syntax are all checked before being accepted.

Once a worksheet has been created Cracker 2 turbo plus can translate these figures into graphs, in high resolution, either on the screen or to an Epson compatible printer. Bar graphs, pie charts, line graphs, logarithmic, scatter and hi lo graphs can all be produced.

Built-in functions are available for doing statistical analysis, complex logic and higher mathematics. Special functions for cashflow calculations and tax assessments are also provided.

- Cracker 2 turbo plus supports 55 columns by 255 rows
- Makes full use of the PCW 32 line screen
- Extensive graphing capabilities
- On-line help and error checking

Upgrades from Cracker 2 turbo to turbo plus are available from NewStar Software Return the original program disks together with £12.99 +VAT to the address below.



NewStar Software Limited,
The Widford Old Rectory, London Road, Chelmsford,
Essex CM2 8TE

Tel: (0245)) 265017 Fax: (0245) 263969

Write or phone for our FREE 64 page catalogue of IBM & PCW software